

Result No.	Score	Query %		DB	ID	Description
		Match	Length			
1	2807.2	99.8	3007	3	US-09-193-562D-27	Sequence 27, Appl
2	2807.2	99.8	3007	4	US-10-055-412B-27	Sequence 27, Appl
3	2743	97.5	2745	4	US-09-623-624-5	Sequence 5, Appl
4	2743	97.5	2745	4	US-10-270-595-1	Sequence 5, Appl
5	1743	62.0	2931	4	US-09-623-624-1	Sequence 1, Appl
6	1743	62.0	2931	4	US-10-270-595-1	Sequence 1, Appl
7	1512	53.8	1512	4	US-09-016-434-850	Sequence 850, Appl
8	1308.6	46.5	3043	3	US-09-049-698-16	Sequence 16, Appl
9	1308.6	46.5	3043	3	US-09-049-698-18	Sequence 18, Appl
10	900.2	32.0	3317	3	US-09-193-562D-1	Sequence 1, Appl
11	900.2	32.0	3317	4	US-10-055-412B-1	Sequence 1, Appl
12	840.6	29.9	3022	3	US-09-193-562D-33	Sequence 33, Appl
13	840.6	29.9	3022	4	US-10-055-412B-33	Sequence 33, Appl
14	832.6	29.6	3418	3	US-09-193-562D-29	Sequence 29, Appl
15	832.6	29.6	3418	4	US-10-055-412B-29	Sequence 29, Appl
16	780.8	27.8	878	1	US-08-469-667-8	Sequence 8, Appl
17	780.8	27.8	878	3	US-09-224-110-8	Sequence 8, Appl
18	780.8	27.8	878	5	PCF-US95-07289-8	Sequence 8, Appl
19	554.6	19.7	2784	4	US-09-643-597-168	Sequence 168, App
20	554.6	19.7	2784	4	US-09-480-884A-168	Sequence 168, App
21	554.6	19.7	2784	4	US-09-542-615A-168	Sequence 168, App
22	554.6	19.7	2784	4	US-09-606-421B-168	Sequence 168, App
23	554.6	19.7	2784	4	US-09-466-396A-168	Sequence 168, App
24	554.6	19.7	2784	4	US-09-476-496A-168	Sequence 168, App
25	554.6	19.7	2784	4	US-09-630-940B-168	Sequence 168, App
26	552.2	19.6	2773	4	US-09-643-597-358	Sequence 358, App
27	552.2	19.6	2773	4	US-09-630-940B-358	Sequence 358, App

Db	383	GGTAATGATGAACCCCTACACTGACAGATGGGCAACTGTGTGAGAGAGGGTGAAGGATC	442	QY	1501	GGATTAAACCTCCAGAAACAGCCAGTGGATGAATGGCAAGTGTGCTGGACAGACCCGTG	1560
QY	421	CACCTCACTCTGATTTTCATTGCGAGGAAAAAGTTAGCTGAATATGGACCAAGGTAGG	480	Db	1523	GGATTAAACCTCCAGAAACAGCCAGTGGATGAATGGCAAGTGTGCTGGACAGACCCGTG	1582
Db	443	CACCTCACTCTGATTTTCATTGCGAGGAAAAAGTTAGCTGAATATGGACCAAGGTAAAG	502	QY	1561	GGAAAGGACACTTTTGTTCATCACCTGGGCAACGAGCCCTCCCAAAATCCTTCTCTGG	1620
QY	481	GCAATTTGCCATGAGTGGGCTCATCTACATGGGGAGTATTGACGAGTACAAATATGAT	540	Db	1583	GGAAAGGACACTTTTGTTCATCACCTGGGCAACGAGCCCTCCCAAAATCCTTCTCTGG	1642
Db	503	GCAATTTGCCATGAGTGGGCTCATCTACATGGGGAGTATTGACGAGTACAAATATGAT	562	QY	1621	GATCCAGTGAACAGAGCAAGGTGGCTTTGTAGTGGACAAACACCAAAATGSCCTAC	1680
QY	541	GAGAAATTTCTACTTATCCAAATGGAGAAATACAAGCAGTAAGATGTTACAGCAGGTATTACT	600	Db	1643	GATCCAGTGAACAGAGCAAGGTGGCTTTGTAGTGGACAAACACCAAAATGSCCTAC	1702
Db	563	GAGAAATTTCTACTTATCCAAATGGAGAAATACAAGCAGTAAGATGTTACAGCAGGTATTACT	622	QY	1681	CTCCAAATCCCAAGGCAATGCTAAGGTTGGCACTTTGGAATACAGTCTGCAAGCAAGCTCA	1740
QY	601	GCTCAAAATAGTAGTAAGAAGTGTGAGGAGGACGCTGTTACACCAAAAGATGCAATTC	660	Db	1703	CTCCAAATCCCAAGGCAATGCTAAGGTTGGCACTTTGGAATACAGTCTGCAAGCAAGCTCA	1762
Db	623	GGTACAANATGATTAAGAAGTGTGAGGAGGACGCTGTTACACCAAAAGATGCAATTC	682	QY	1741	CAAACTTTGACCCCTGACTGTCACTGCTGGGTGCTCAATGTCTACCTGCTCCCAATTACA	1800
QY	661	AATAAGATTAAGGACTCTATGAAAAAGATGTGATTTGTTCTCCAAATCCCGCCAGAGG	720	Db	1763	CAAACTTTGACCCCTGACTGTCACTGCTGGGTGCTCAATGTCTACCTGCTCCCAATTACA	1822
Db	683	AATAAGATTAAGGACTCTATGAAAAAGATGTGATTTGTTCTCCAAATCCCGCCAGAGG	742	QY	1801	GTGACTTTCCAAAACGAAACAGGACACCAAGCAATTTCCCGAGCCCTCTGGTAGTTTATGCA	1860
QY	721	GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780	Db	1823	GTGACTTTCCAAAACGAAACAGGACACCAAGCAATTTCCCGAGCCCTCTGGTAGTTTATGCA	1882
Db	743	GAGAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	802	QY	1861	AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAACAGCCCTGATGAATCA	1920
QY	781	CAAAACCCACAAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCGAAGCACA	840	Db	1883	AATATTGCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAACAGCCCTGATGAATCA	1942
Db	803	CAAAACCCACAAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATCTCGAAGCACA	862	QY	1921	GTGAATGGAAAAACAGTTACCTTGGAACTACTTGGAACTACTTGGAACTACTTGGAACTACT	2002
QY	841	TGGGAAGTGAATCGGTGATTTCTGAGGACTTTAAGAAACCACTCTATGACACACAGCCA	900	Db	1981	RAGGATGACGGTGTCTACTCRAAGGTATTTCAACACTTATGACACGAATGTAGATACAGT	2040
Db	863	TGGGAAGTGAATCGGTGATTTCTGAGGACTTTAAGAAACCACTCTATGACACACAGCCA	922	QY	2003	RAGGATGACGGTGTCTACTCRAAGGTATTTCAACACTTATGACACGAATGTAGATACAGT	2062
QY	901	CCAAATCCCACCTTCTCATTTGTCAGATTTGACAAAGAAATGTGTGTTAGTCTCTTGAC	960	Db	2041	GTAAAGTCCGGGCTCTGGGAGGAGTTAAACGAGCCAGACGAGAGTGTATACCCAGCAG	2100
Db	923	CCAAATCCCACCTTCTCATTTGTCAGATTTGACAAAGAAATGTGTGTTAGTCTCTTGAC	982	QY	2063	GTAAAGTCCGGGCTCTGGGAGGAGTTAAACGAGCCAGACGAGAGTGTATACCCAGCAG	2122
QY	961	AAATCTGGAAGCATGCGACTGTTAACCAGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020	Db	2101	AGTGGAGCACTGTACATACCTGGCTGGATTTGAGATGATGAATGAAATACAAATGGATCCACCA	2160
Db	983	AAATCTGGAAGCATGCGACTGTTAACCAGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1042	QY	2123	AGTGGAGCACTGTACATACCTGGCTGGATTTGAGATGATGAATGAAATACAAATGGATCCACCA	2182
QY	1021	TTCTCTCTGAGACAGTGTGAGTGGGCTCTGGGTTGGATGGTGAATTTGACAGTGTCT	1080	Db	2161	AGACCTGAAATTAATAAGGATGATTTCAACCAAGCAAGTGTGTTTTCAGCAGAAATCC	2220
Db	1043	TTCTCTCTGAGACAGTGTGAGTGGGCTCTGGGTTGGATGGTGAATTTGACAGTGTCT	1102	QY	2183	AGACCTGAAATTAATAAGGATGATTTCAACCAAGCAAGTGTGTTTTCAGCAGAAATCC	2242
QY	1081	GCCCATGTACAAAGTGAACCTACATACAGATAAACAGTGGCAGTGCACAGGACACACTCGCC	1140	Db	2221	TCGGGAGGCTCAATTTGTGGCTTCTGATGTCCCAAAATGCTCCCATAGCTCTTCTCCCA	2280
Db	1103	GCCCATGTACAAAGTGAACCTACATACAGATAAACAGTGGCAGTGCACAGGACACACTCGCC	1162	QY	2243	TCGGGAGGCTCAATTTGTGGCTTCTGATGTCCCAAAATGCTCCCATAGCTCTTCTCCCA	2302
QY	1141	AAAAGATTACTCGACAGCTTCAGGAGGACGTCCCAATGTCAGCGGGCTTCGATCGGCA	1200	Db	2281	CCTGGCCAAATACCCGACTGAAGCGGAAATTCACGGGGGCACTCTCAATTAATCTGACT	2340
Db	1163	AAAAGATTACTCGACAGCTTCAGGAGGACGTCCCAATGTCAGCGGGCTTCGATCGGCA	1222	QY	2303	CCTGGCCAAATACCCGACTGAAGCGGAAATTCACGGGGGCACTCTCAATTAATCTGACT	2362
QY	1201	TTTACTGTGATTAAGGAAATATCCAACTGATGGATCTGAAATGTGCTGTGACGAGAT	1260	Db	2341	TGGACAGCTCCTGGGATGATTTATGACATGGAACAGCTCACAAATGATATCATTCGAATA	2400
Db	1223	TTTACTGTGATTAAGGAAATATCCAACTGATGGATCTGAAATGTGCTGTGACGAGAT	1282	QY	2363	TGGACAGCTCCTGGGATGATTTATGACATGGAACAGCTCACAAATGATATCATTCGAATA	2422
QY	1261	GGGGAACACACACTATAAGTGGGTGCTTTAAACAGGTCAAAACAAAGTGGTGCATCATC	1320	Db	2401	AGTACAAGTATCTTGTATCTCAGAGACAAAGTCAATGAATCTCTTCAAGTGAATCTACT	2460
Db	1283	GGGGAACACACACTATAAGTGGGTGCTTTAAACAGGTCAAAACAAAGTGGTGCATCATC	1342	QY	2423	AGTACAAGTATCTTGTATCTCAGAGACAAAGTCAATGAATCTCTTCAAGTGAATCTACT	2482
QY	1321	CACACAGTCCGTTTGGGGCCCTCTGACAGTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380	Db	2461	GCTCTCATCCAAAGGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAAAACATT	2520
Db	1343	CACACAGTCCGTTTGGGGCCCTCTGACAGTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1402	QY	2483	GCTCTCATCCAAAGGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAAAACATT	2542
QY	1381	GGAGTTTACAGACATATGTTTCAGATCAAGTTTCAGAACAAATGCTCAATGATGCTTTT	1440	Db	2521	ACTTTTGAAATGGCAGAGATCTTTTCAATTCAGGCTGTTGATGAAGGTGATCTG	2580
Db	1403	GGAGTTTACAGACATATGTTTCAGATCAAGTTTCAGAACAAATGCTCAATGATGCTTTT	1462	QY	2543	ACTTTTGAAATGGCAGAGATCTTTTCAATTCAGGCTGTTGATGAAGGTGATCTG	2602
QY	1441	GGGCCCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500				
Db	1463	GGGCCCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1522				

QY	2581	AAATCAGAAATATCAACATTTGCACGAGTATCTTTTGTGTTTATCTCTCACAGACTCCGCCA	2644
Db	2603	AAATCAGAAATATCAACATTTGCACGAGTATCTTTTGTGTTTATCTCTCACAGACTCCGCCA	2662
QY	2641	GAGACACCTAGTCTCGATGAAACCTGCTCCCTTGTCTTAATTTATATCAACAGCACC	2700
Db	2663	GAGACACCTAGTCTCGATGAAACCTGCTCCCTTGTCTTAATTTATATCAACAGCACC	2722
QY	2701	ATTCTCTGGCAATTCACATTTTAAAAAATATGTGGAAGTGGATAGGAGAACTGCAGCTGTCA	2760
Db	2723	ATTCTCTGGCAATTCACATTTTAAAAAATATGTGGAAGTGGATAGGAGAACTGCAGCTGTCA	2782
QY	2761	ATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAAATCAATTCATCCTT	2812
Db	2783	ATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAAATCAATTCATCCTT	2834
RESULT 2			
US-10-055-412B-27			
; Sequence 27, Application US/10055412B			
; Patent No. 6692939			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
; FILE REFERENCE: 18617.0058			
; CURRENT APPLICATION NUMBER: US/10/055,412B			
; CURRENT FILING DATE: 2001-10-29			
; PRIOR APPLICATION NUMBER: US/09/193,562			
; PRIOR FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065,922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 27			
; LENGTH: 3007			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-055-412B-27			
Query Match			
Best Local Similarity 99.8%; Score 2807.2; DB 4; Length 3007;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;			
QY	1	GAATCAGAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT	60
Db	23	GGAAATCAGAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTCACTTTGATT	82
QY	61	CTTCACTCTTGAAGGGGCCCTGAGTAAATCACTCATTCAGCTGACACAGCAATGGCTAT	120
Db	83	CTTCACTCTTGAAGGGGCCCTGAGTAAATCACTCATTCAGCTGACACCAATGGCTAT	142
QY	121	GAAGGCAATGCTGTGCAATTCGACCCCAATGTGCCAGAGATGAAACACTCATTTCAACAA	180
Db	143	GAAGGCAATGCTGTGCAATTCGACCCCAATGTGCCAGAGATGAAACACTCATTTCAACAA	202
QY	181	ATAAAGGCAATGCTGACCCAGGCAATCTGTATCTGTTTGAAGCTACAGGAAGCGATTT	240
Db	203	ATAAAGGCAATGCTGACCCAGGCAATCTGTATCTGTTTGAAGCTACAGGAAGCGATTT	262
QY	241	TATTTCAAAAATGTTGCCATTTTGAATCTCTGAAAATGACACAGCAAGGCTGACTATGTG	300
Db	263	TATTTCAAAAATGTTGCCATTTTGAATCTCTGAAAATGACACAGCAAGGCTGACTATGTG	322
QY	301	AGACCAAAATCTTGAGACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA	360
Db	323	AGACCAAAATCTTGAGACCTTACAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCA	382
QY	361	GGTAATGATGCAACCTTACACTGAGCAGATGGGCACTGTGGAGAGAGAGGTTGAAAGGATC	420
Db	383	GGTAATGATGCAACCTTACACTGAGCAGATGGGCACTGTGGAGAGAGAGGTTGAAAGGATC	442
QY	421	CACCTCACTCCTGATTTCATTTGACGAAAAAAGTTAGCTGAATATGGACCAACAGGTAGG	480





Db 121 CCAATGTGCGCAAGATGAAACACTCATTAACAAATAAAGACATGTTGACCCAGGCA 180  
QY TCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTTCAAATATGTTGCAATTTTG 264  
Db 181 TCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTTCAAATATGTTGCAATTTTG 240  
QY 265 ATTCTGAAACATGGAAGCAAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAA 324  
Db 241 ATTCTGAAACATGGAAGCAAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAA 300  
QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384  
Db 301 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 360  
QY 385 CAGATGGGCAACTGTGGAGAGAGGTAAGAGATCCACTCACCTCCTCTGATTTTCAATGCA 444  
Db 361 CAGATGGGCAACTGTGGAGAGAGGTAAGAGATCCACTCACCTCCTGATTTTCAATGCA 420  
QY 445 GGAATAAAGTTAGCTGAATATGGAACCAAGGTAGGGCAATTTGTCCATGAGTGGGCTCAT 504  
Db 421 GGAATAAAGTTAGCTGAATATGGAACCAAGGTAGGGCAATTTGTCCATGAGTGGGCTCAT 480  
QY 505 CTACGATGGGAGTATTTGAAGATGACCAAGGTAGGCAATTTCTACTTTATCCAAATGGA 564  
Db 481 CTACGATGGGAGTATTTGAAGATGACCAAGGTAGGCAATTTCTACTTTATCCAAATGGA 540  
QY 565 AGAATACAAGCAGTAAAGATGTTACGAGGTATTTACTGTGACAAATGTAGTAAAGTGT 624  
Db 541 AGAATACAAGCAGTAAAGATGTTACGAGGTATTTACTGGTACAAATGTAGTAAAGTGT 600  
QY 625 CAGGAGGAGCTGTTACCAAAAGATGCACATTCATTAAGTAAACAGGACTCATGAA 684  
Db 601 CAGGAGGAGCTGTTACCAAAAGATGCACATTCATTAAGTAAACAGGACTCATGAA 660  
QY 685 AAAAGATGTGATTTGTTCTCGAATCCGCGAGAGAGAGGCTTTATTAATGTTTGA 744  
Db 661 AAAAGATGTGATTTGTTCTCGAATCCGCGAGAGAGAGGCTTTATTAATGTTTGA 720  
QY 745 CAACATGTTGATTTCTATAGTTGAATTCGTGACAGCAAAACCAACCAAGAGCTCCA 804  
Db 721 CAACATGTTGATTTCTATAGTTGAATTCGTGACAGCAAAACCAACCAAGAGCTCCA 780  
QY 805 AACAGCAAAATCAAAATGCAATCTCCGAAGCAGATGGGAAGTATCCGTTGATTTCTGAG 864  
Db 781 AACAGCAAAATCAAAATGCAATCTCCGAAGCAGATGGGAAGTATCCGTTGATTTCTGAG 840  
QY 865 GACTTTAAGAAACCACTCTCTATGACAAACAGGCAACCAATCCCACTTCTCATTTGCTG 924  
Db 841 GACTTTAAGAAACCACTCTCTATGACAAACAGGCAACCAATCCCACTTCTCATTTGCTG 900  
QY 925 CAGATTGCAACAAAGAAATTTGTTAGTCTCTGACAAATCTGGAAGCTGGGAGCTGGT 984  
Db 901 CAGATTGCAACAAAGAAATTTGTTAGTCTCTGACAAATCTGGAAGCTGGGAGCTGGT 960  
QY 985 AACCGCTCAATGACTGAATCAAGCAGGCGAGCTTTTCTGCTGACAGACAGTTGAGCTG 1044  
Db 961 AACCGCTCAATGACTGAATCAAGCAGGCGAGCTTTTCTGCTGACAGACAGTTGAGCTG 1020  
QY 1045 GGTCTCTGGGTTGGGATGGTGACATTTGACAGTCTGCCATGTPACAAAGTGAACCTCAT 1104  
Db 1021 GGTCTCTGGGTTGGGATGGTGACATTTGACAGTCTGCCATGTPACAAAGTGAACCTCAT 1080  
QY 1105 CAGATAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTTACCTGACAGAGCTTCA 1164  
Db 1081 CAGATAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTTACCTGACAGAGCTTCA 1140  
QY 1165 GGAGGAGCTGCTCATCTGACGCGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAATAT 1224  
Db 1141 GGAGGAGCTGCTCATCTGACGCGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAATAT 1200  
QY 1225 CCAACTGATGGATCTGAAATTTGCTGCTGACCGGATGGGGAAGCAACACTAATAGTGGG 1284

Db 1201 CCAACTGATGGATCTGAAATTTGTGCTGTGACGGATGGGGAAGACAACACTATAAGTGGG 1260  
QY 1285 TGTCTTTAACGAGGTCAAAACAAAAGTGGTGCATCATCATCACACAGTCCCTTTTGGGCGCTCT 1344  
Db 1261 TGTCTTTAACGAGGTCAAAACAAAAGTGGTGCATCATCATCACACAGTCCCTTTTGGGCGCTCT 1320  
QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1404  
Db 1321 GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCA 1380  
QY 1405 GATCAAGTTTCAAGCAATGGCCCTCATTTGATGCTTTTGGGCGCTTTTCAATCAGAAATGGA 1464  
Db 1381 GATCAAGTTTCAAGCAATGGCCCTCATTTGATGCTTTTGGGCGCTTTTCAATCAGAAATGGA 1440  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAACCTCCAGAACAGCCAG 1524  
Db 1441 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAACCTCCAGAACAGCCAG 1500  
QY 1525 TGGATGAATGGCAGCAGTGTCTGTGACAGCACCGTGGGAAAGGACACTTTGTTCTTATC 1584  
Db 1501 TGGATGAATGGCAGCAGTGTCTGTGACAGCACCGTGGGAAAGGACACTTTGTTCTTATC 1560  
QY 1585 ACCTGACAAACGCGCGCTCCCAAAATCCCTTCTCTGGGATCCAGTGGGACAGAAAGT 1644  
Db 1561 ACCTGACAAACGCGCGCTCCCAAAATCCCTTCTCTGGGATCCAGTGGGACAGAAAGT 1620  
QY 1645 GCTTTGTAGTGGACAAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTTAAG 1704  
Db 1621 GCTTTGTAGTGGACAAAACCAAAATGGCTTACCTCCAAATCCAGGCAATTCCTTAAG 1680  
QY 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGTCAAG 1764  
Db 1681 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGTCAAG 1740  
QY 1765 TCCCGTGGCTCCAAATGCTACCTCCCAATTAACAGTACCTTCCAAATCCAGGCAATTCCTTAAG 1824  
Db 1741 TCCCGTGGCTCCAAATGCTACCTCCCAATTAACAGTACCTTCCAAATCCAGGCAATTCCTTAAG 1800  
QY 1825 ACCAGCAAAATPCCCGAGCCCTCTGCTAGTTTATGCAAAATATTCGCCAAGGAGCTTCCCA 1884  
Db 1801 ACCAGCAAAATPCCCGAGCCCTCTGCTAGTTTATGCAAAATATTCGCCAAGGAGCTTCCCA 1860  
QY 1885 ATTCTCAGGCGCAGTGTCAAGCCCTGATTTGAATCAGTGAATGAAATAACAGTACCTTG 1944  
Db 1861 ATTCTCAGGCGCAGTGTCAAGCCCTGATTTGAATCAGTGAATGAAATAACAGTACCTTG 1920  
QY 1945 GAACTACTGATATGAGCAGAGTGTGATGCTACTAAGGATGACGCTGTCTACTCAAGG 2004  
Db 1921 GAACTACTGATATGAGCAGAGTGTGATGCTACTAAGGATGACGCTGTCTACTCAAGG 1980  
QY 2005 TATTTCAAACTTATGACAGCAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2064  
Db 1981 TATTTCAAACTTATGACAGCAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGA 2040  
QY 2065 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCTGTATACATCCTGGC 2124  
Db 2041 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCTGTATACATCCTGGC 2100  
QY 2125 TGGATTGAGAAATGAAATPACAAATGGAATCCACAGACCTGAAATTAATTAAGGATGAT 2184  
Db 2101 TGGATTGAGAAATGAAATPACAAATGGAATCCACAGACCTGAAATTAATTAAGGATGAT 2160  
QY 2185 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAATCCCTCGGAGGCTCATTTTGGGCTTCT 2244  
Db 2161 GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAATCCCTCGGAGGCTCATTTTGGGCTTCT 2220  
QY 2245 GATGTCCCAAAATGCTCCCATCTGATCTCTTCCCACTGGGCAAAATCACCGACCTGAAG 2304  
Db 2221 GATGTCCCAAAATGCTCCCATCTGATCTCTTCCCACTGGGCAAAATCACCGACCTGAAG 2280  
QY 2305 GCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACCTTGACAGCTCTCTGGGATGATTAT 2364  
Db 2281 GCGGAAATTCACGGGGGCGAGTCTCATTAATCTGACCTTGACAGCTCTCTGGGATGATTAT 2340

2365 GACCATGAAACAGCTCAAGTATATATCATTCGAATAAGTCAAGTATCTTGATCTCAGA 2424  
2341 GACCATGAAACAGCTCAAGTATATATCATTCGAATAAGTCAAGTATCTTGATCTCAGA 2400  
2425 GACAAAGTTCATGAATCTCTCAAGTCAATATCTGCTCTCATCCCAAGGAAGCAAC 2484  
2401 GACAAAGTTCATGAATCTCTCAAGTCAATATCTGCTCTCATCCCAAGGAAGCAAC 2460  
2485 TCTCAGGAAGTCTTTTGTGTTTAAACCGAAACAACTTCTTTGAAATGCGCACAGATCTT 2544  
2461 TCTCAGGAAGTCTTTTGTGTTTAAACCGAAACAACTTCTTTGAAATGCGCACAGATCTT 2520  
2545 TCTCAGGAAGTCTTTTGTGTTTAAACCGAAACAACTTCTTTGAAATGCGCACAGATCTT 2604  
2521 TCTCAGGAAGTCTTTTGTGTTTAAACCGAAACAACTTCTTTGAAATGCGCACAGATCTT 2580  
2605 CGAGTATCTTTGTTTATTCCTCCAGACTCCGCGAGAGACACCTAGTCTGATGAAACG 2664  
2581 CGAGTATCTTTGTTTATTCCTCCAGACTCCGCGAGAGACACCTAGTCTGATGAAACG 2640  
2665 TCTGCTCCTGTCCTTAATATCAATCAACAGCACCATTCTCTGGCAATTCACATTTTAAAA 2724  
2641 TCTGCTCCTGTCCTTAATATCAATCAACAGCACCATTCTCTGGCAATTCACATTTTAAAA 2700  
2725 ATTATGTGGAAGTGTGATAGGAACTGCAGTGTCAATAGCCTAG 2769  
2701 ATTATGTGGAAGTGTGATAGGAACTGCAGTGTCAATAGCCTAG 2745

RESULT 4  
US-10-270-595-5  
; Sequence 5, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-10-270-595-5

Query Match 97.5%; Score 2743; DB 4; Length 2745;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2743; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 25 ATGGGGCCATTTAAGAGTCTCTGTGTTCACTGTGATTTCTTCACTTCTTGAAGGGGCGCTG 84  
Db 1 ATGGGGCCATTTAAGAGTCTCTGTGTTCACTGTGATTTCTTCACTTCTTGAAGGGGCGCTG 60  
QY 85 AGTAATTTCACTCATTCAGCTGAAACAACAATGGCTATGAAGGCATTTGCTTGAATCGAC 144  
Db 61 AGTAATTTCACTCATTCAGCTGAAACAACAATGGCTATGAAGGCATTTGCTTGAATCGAC 120  
QY 145 CCCAATGTGCCAGAAAGATGAAACACTCATTCACAAATAAAGAGCATGGTCAACCCAGCA 204  
Db 121 CCCAATGTGCCAGAAAGATGAAACACTCATTCACAAATAAAGAGCATGGTCAACCCAGCA 180  
QY 205 TCTCTGATCTGTTTGAAGCTTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264  
Db 181 TCTCTGATCTGTTTGAAGCTTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTTG 240  
QY 265 ATTCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAACTTTGAGACCTTACAAA 324  
Db 241 ATTCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAACTTTGAGACCTTACAAA 300  
QY 325 AATGCTGATGTTTGTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 384  
Db 301 AATGCTGATGTTTGTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 360  
QY 385 CAGATGGGCAACTGTGGAGAGAAAGGTGAAAGGATCCACCTCCTGATTTCAATTCGA 444  
Db 361 CAGATGGGCAACTGTGGAGAGAAAGGTGAAAGGATCCACCTCCTGATTTCAATTCGA 420  
QY 445 GGAAAAAGTTAGCTGAATATGAGCAACAAAGTAGGGCAATTTGTCCATGAGTGGCTCAT 504  
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QY 565 AGAATACAGCAGTAAAGTGTTCAGCAGGTATTACTGGTACAAATGTAGTAAGAGTGT 624  
Db 541 AGAATACAGCAGTAAAGTGTTCAGCAGGTATTACTGGTACAAATGTAGTAAGAGTGT 600  
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Db 661 AAAGGATGTGAGTGTGTTTCTCCAAATCCCGCCAGAGAGGCTTCTAATGTTTGA 720  
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Db 781 AACACCAAAATCAAAATGCAATTTCCGAAGCAGATGGAAGTGTATCCGTGATTTCTGAG 840  
QY 865 GACTTTTAAAGAAACCACTCTCTATGCAACACAGCCCAAAATCCCACTTCTCATTTGCTG 924  
Db 841 GACTTTTAAAGAAACCACTCTCTATGCAACACAGCCCAAAATCCCACTTCTCATTTGCTG 900  
QY 925 CAGATTGGACAAAGAAATTTGTGTTTGTAGTCTTGAACAATCTGGAAGAGTGGGACTGGT 984  
Db 901 CAGATTGGACAAAGAAATTTGTGTTTGTAGTCTTGAACAATCTGGAAGAGTGGGACTGGT 960  
QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCGACCTTTTCTGCTGCAGACAGTTGAGCTG 1044  
Db 961 AACCGCTCAATCGACTGAATCAAGCAGGCGACCTTTTCTGCTGCAGACAGTTGAGCTG 1020

QY	1045	GGGTCTCTGGTTGGATGGTGACATTTGACAGTGTCTGCCCATGTACAAAGTGAACACTCAT	1104
DB	1021	GGGTCTCTGGTTGGGATGGTGACATTTGACAGTGTCTGCCCATGTACAAAGTGAACACTCAT	1080
QY	1105	CAGATAAACAGTGGCAGTGCAGGGACACATCTGCCAAAGATTTACCTGCAGCAGCTTCA	1164
DB	1081	CAGATAAACAGTGGCAGTGCAGGGACACATCTGCCAAAGATTTACCTGCAGCAGCTTCA	1140
QY	1165	GGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTTAGGAAGAAATAT	1224
DB	1141	GGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTTAGGAAGAAATAT	1200
QY	1225	CCAACGTATGATCTGAAATTTGTCTGTGACGAGTGGGAAGACAACACTATAAGTGGG	1284
DB	1201	CCAACGTATGATCTGAAATTTGTCTGTGACGAGTGGGAAGACAACACTATAAGTGGG	1260
QY	1285	TGCTTTAACGAGGTCAAAACAAGTGGTGCATCATCCACAGTTCGCTTTTGGGGCCCTCT	1344
DB	1261	TGCTTTAACGAGGTCAAAACAAGTGGTGCATCATCCACAGTTCGCTTTTGGGGCCCTCT	1320
QY	1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA	1404
DB	1321	GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA	1380
QY	1405	GATCAAGTTCAGACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGA	1464
DB	1381	GATCAAGTTCAGACAATGGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGA	1440
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTTCAGACAGCCAG	1524
DB	1441	GCTGTCTCTCAGCGCTCATCCAGCTTGAGAGTAAGGATTAACCTTCAGACAGCCAG	1500
QY	1525	TGGATGAATGGSCACAGTGATCGTGGACAGCACCGTGGGAAAGGACATTTGTTTCTTATC	1584
DB	1501	TGGATGAATGGSCACAGTGATCGTGGACAGCACCGTGGGAAAGGACATTTGTTTCTTATC	1560
QY	1585	ACCTGGACAACGCGACCTCCCAAATCCTTCTCTGGATCCCAGTGGACAGAAAGCAAGT	1644
DB	1561	ACCTGGACAACGCGACCTCCCAAATCCTTCTCTGGATCCCAGTGGACAGAAAGCAAGT	1620
QY	1645	GGCTTCTGAGTGGACAAAACACCAAAATGGCCTACCTCCAAATCCAGGCAATGCTAAG	1704
DB	1621	GGCTTCTGAGTGGACAAAACACCAAAATGGCCTACCTCCAAATCCAGGCAATGCTAAG	1680
QY	1705	GTTGGCACTTTGGAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAG	1764
DB	1681	GTTGGCACTTTGGAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCAG	1740
QY	1765	TCCGTGCTCCAAATGCTACCTGCCCTCCAAATGAGTTCGAAACGAAACAGGAC	1824
DB	1741	TCCGTGCTCCAAATGCTACCTGCCCTCCAAATGAGTTCGAAACGAAACAGGAC	1800
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QY	1885	ATTCTCAGGCCCAGTGTCAAGCCCTGATTTGATCAGTGAATGGAATAACAGTTTACCTTG	1944
DB	1861	ATTCTCAGGCCCAGTGTCAAGCCCTGATTTGATCAGTGAATGGAATAACAGTTTACCTTG	1920
QY	1945	GAACTACTGGATTAATGGAGCAGTGTGATGCTTAAGGATGACGGTGTCTACTCAAGG	2004
DB	1921	GAACTACTGGATTAATGGAGCAGTGTGATGCTTAAGGATGACGGTGTCTACTCAAGG	1980
QY	2005	TATTTCAACACTTATGACACGAATGTAGATACAGTGTAAAAGTGGGGCTCTGGAGGA	2064
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QY	2065	GTTAACGCCACCCAGACGGAGAGTGATACCCACAGCAGTGGAGCACTGTACATACCTGC	2124
DB	2041	GTTAACGCCACCCAGACGGAGAGTGATACCCACAGCAGTGGAGCACTGTACATACCTGC	2100
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Db	2161	GTTCAACAACAAGCAAGTGTGTTTCAGCAGAAACATCCTCGGAGAGCTCATTTGTGGCTTCT	2220
QY	2245	GATGTCCTCAATGTCCCATACCTGATCTCTTCCACCTCGTCCCAAAATCACCGACCTCAAG	2304
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Db	2281	GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGAGATGATTAT	2340
QY	2365	GACCATGGAAACAGCTCCAAAGTATATCATTCGAAATAAGTACAAGTATCTCTGATCTCAGA	2424
Db	2341	GACCATGGAAACAGCTCCAAAGTATATCATTCGAAATAAGTACAAGTATCTCTGATCTCAGA	2400
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Db	2401	GACAAGTTCAATGAATCTCTTCAAGTGAATACTCTCTCATCCCAAGGAGGCAAC	2460
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Db	2461	TCTGAGGAAGTCTTTTGTTTTAAACCAAGAAAACATTAATCTTTGAAAATGSCACAGATCTT	2520
QY	2545	TTCAATGCTATTCAAGGCTGTTGATAAGGTCGATCTGAAATCAGAAATATCCAACTTCCA	2604
Db	2521	TTCAATGCTATTCAAGGCTGTTGATAAGGTCGATCTGAAATCAGAAATATCCAACTTCCA	2580
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Db	2701	ATTATGGAAGTGGATAGAGAACTCGAGCTCTCAATAGCCTAG	2745
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US-09-623-624-1			
; Sequence 1, Application US/09623624			
; Patent No. 6576434			
; GENERAL INFORMATION:			
; APPLICANT: Magainin Pharmaceuticals, Inc.			
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating			
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related			
; TITLE OF INVENTION: Disorders			
; FILE REFERENCE: 36870-5073-WO			
; CURRENT APPLICATION NUMBER: US/09/623,624			
; CURRENT FILING DATE: 2000-09-06			
; PRIOR APPLICATION NUMBER: PCT/US99/04703			
; PRIOR FILING DATE: 1999-03-03			
; PRIOR APPLICATION NUMBER: US 08/697,360			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,419			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,440			
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; PRIOR APPLICATION NUMBER: US 08/697,473			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/702,105			

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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2931
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)..(2746)
US-09-623-624-1

Query Match      62.0%; Score 1743; DB 4; Length 2931;
Best Local Similarity 77.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 595; Indels 21; Gaps 4;

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Qy      85  AGTAATTCACCTCATTGAGCTGAACAACTATGGCTATGAAGGATTTGTCGTTGCAATCGAC 144
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Qy      145  CCCATGTGCCAGAGATGAACACTCATTCAACAAATAAAGGACATGGTGACCCAGCA 204
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Qy      205  TCTCTGTATCTCTTTGAAGCTACAGAAAGCCGATTTTATTTCAAAAATGTTGCCATTTTG 264
Db      188  TCTCATACCTGTTTGAAGCTACAGGAAAGATTTTACTTCAAAAATGTTGCCATTTTG 247

Qy      265  ATTCTGTAACATGAAGAACAAAGGCTGACTATGTGAGACCAAACTTTGAGACCTTACAAA 324
Db      248  ATTCGCGAGAGCTGGAAGCAAGGCTGAATATACAGGCCAAAACCTTGAACCTTCAAA 307

Qy      325  AATGCTGATGTTCTGGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384
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Qy      385  CAGATGGGCAACTGTGGAGAGAGGTTGAAGGATCCACCTCACTCCTGATTTTCAATTGCA 444
Db      368  CATATAGGAGCATGTGGAGAAAGGGATCAGGAATTCACCTGACTCCTGACTTCTTAGCA 427

Qy      445  GGAATAAGTTAGCTGAATATGGAACCAAGGTAGGGCATTTGTCCATGAGTGGGCTCAT 504
Db      428  GGAATAAGTTAGCTGACTCAGTATGGGCCACAGAGAGGACCTTTGTCCATGAGTGGGCTCAC 487

Qy      505  CTACGATGGGAGTATTTCCAGAGTACAATAATGATGAGAAATTTCTACTTATCCAAATGA 564
Db      488  TTCCGATGGGAGTGTATTAATGATACAAACAGCAGAGAGGTTCTACTTATCCAAAGGA 547

Qy      565  AGAATAACAAGCAGTAAAGATGTTCCAGCAGGTATTTACTGGTACAAATGATGATGAAGAGTGT 624
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Qy      625  CAGGGAGGAGCTGTTTACACCAA --- AAGATGCACATTCATTAAGTAAAGTAAAGCTCTAT 681
Db      608  CAGGGAGGAGTGTGATCACTAAACGGAAGTGTGTAATCGACAGATTAACGGAGCTGTAT 667

Qy      682  GAAAGAGGATGTCAGTGTGTTCTCCCAATCCCGCAGAGAGGAGGCTTCTATAATGTTT 741
Db      668  AAGACAAATTTGTTATTTGTACAGATCCACACCAAAACGAGAGGCTTCCATCATGTTT 727

Qy      742  GCACACATGTTGATTTCTATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAGCT 801
Db      728  AACCAAAATATCAATTTCTGTGGTTGAATTTCTGTACAGAAATAATCACAATCAAGAGCC 787
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Qy      802  CCRAACAAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCCGTGATCT 861
Db      788  CCAATGACCAAAACCAACGATGCAATCTCGAAGCAGCTGGGAAGTGCATCCAGGAATCT 847

Qy      862  GAGGACTTTAAGAAACCACTCTCTATCAACAACAGCACCAAAATCCCATCTTCTCATTTG 921
Db      848  GAGGACTTCAAGCAAAACCACTCTCCATGACAGCCAGCCACCTGACCCACCTCTCTCATG 907

Qy      922  CTGCAGATTGGAACAAAGATTTGTTGTTAGTCTTTCACAAATCTGGAAGCATCGCACT 981
Db      908  CTGCAAAATTTGACAAAGAAATTTGTTGTTAGTCTTTCATAGTCCGGAGCATGCTGAAC 967

Qy      982  GGTAAACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAACAGTTTCCAG 1041
Db      968  GATGATCGTCTTAACCAAGAAATCAGCAAGCCGGCTTTTCTGCTGCAACAGTTTCCAG 1027

Qy      1042  CTGGGGTCTGGGTTGGGATGGTCAATTTGACAGTGTGCCCATGTATCAAAAGTGAATC 1101
Db      1028  CAGGGATCTGGGTCGGGATGGTCACTTTGACAGTGTGCTATGTACAAAGCGAATC 1087

Qy      1102  ATACAGATAACAGTGGCAGTGACAGGAGACACTCGCCAAAGATTTACCTGCAAGCACT 1161
Db      1088  AAACAGTTAAACAGTGGTGTGACAGAGATCTGCTGATCAAGCACTTACCCACAGTATCT 1147

Qy      1162  TCAGAGGAGCTCCATCTGACGCGGGCTTCGATCGGCAATTTACTGTGATTAGGAAGAAA 1221
Db      1148  CGAGAGGAGCATCTATATGCTCTGGCTTCGGACAGCATTTACAGTGATAAAGAAAG 1207

Qy      1222  TATCAACTGATGATCTGAAATTTGTGCTGAGCGATGGGGAAGACAAACATTAAGT 1281
Db      1208  TATCAACTGATGATCTGAAATTTGTGCTGACCGATGGGGAAGACAAACATTAAGT 1267

Qy      1282  GGTGCTTTAAGAGGTCAAACAAAGTGGTGCCATCATCCACAGTGCCTTTGGGGCC 1341
Db      1268  AGTCTTTGACCTGGTGAAGCAGAGCGGGCCATCATCCATACAGTGGCCCTGGGACCG 1327

Qy      1342  TCTGAGCTCAAGAACTAGAGAGGCTGCCAAATGACAGGAGGTTTACAGACATATGCT 1401
Db      1328  GCTGCGCTTAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAG 1387

Qy      1402  TCAGATCAAGTTTCAAGCAATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAT 1461
Db      1388  TCGGATCAGGTTTCAAGCAATGGCTTGTGATGCTTTTGGGAGCTTCTCTCAGGAAT 1447

Qy      1462  SGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGC 1521
Db      1448  GCGGCGATCGCTCAGACTCCATCCAGCTGGAGAGCAGGGAGTTTAACTCCAGATTAAC 1507

Qy      1522  CAGTGGATGAATGGCACAGTGAATCGTGAACAGCACCGTGGGAAGAGACATTTGTTTCT 1581
Db      1508  CAATGATGAATGGCTCAGTGATCGTGGACAGCTCGTGGGCAAGSACACCTTTGTTCT 1567

Qy      1582  ATCACTGGAACAGGAGGCTCCCAAAATCTTCTCTGGGATCCAGTGGACAGAGCA 1641
Db      1568  ATCACTGGAACAGGATCTCTCTCAATAATTTATCTGGGATCCAGCGAGTGGGAACAA 1627

Qy      1642  GGTGCTTTGATGAGCAAAAACCAAAATGGCTACTCCAAATCCAGGCAATGCT 1701
Db      1628  AATGTTTATTAATGACACCACTAAGTGGGCTACTCCAGTCCAGGCAAGCT 1687

Qy      1702  AAGGTTGGCACTTGGAAATPACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTG 1761
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Qy      1762  AGTCCCGTGGTCCATGCTACCTCCCTCCAAATPACAGTGAATTTCCAAAGCAAG 1821
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Qy      1822  GACACAGCAAAATTTCCCGAGCCCTCTGGTGTAGTTTATGCAAAATTTCCGCAAGGAGCTCC 1881
Db      1808  AACACAGGGAATTTCCCGAGCCCTGTAAACAGTGTATGCAAGCATTCGCCAAGGAGCTCG 1867
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QY 1882 CCAATTTCTCAGGGCCAGTGTTCAGAGCCCTGATTAATCAAGTGAATGAAAAACAGTTACC 1941
Db 1868 CCTATTCTCAGGGCCAGCGTTCAGAGCCCTGATTAATCAAGTGAATGAAAAACAGTTACC 1927
QY 1942 TTGGAATCTACTGATTAATGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCA 2001
Db 1928 CTGGAATTTACTGATTAACGAGCAGGTGCGGATGCCACCAAGAAATGATGGTGTCTACTCA 1987
QY 2002 AGTATTTTCCAACTTATGACACGAATGGTAGATACAGTGTAAAGTGAAGTGGGCTCTGGGA 2061
Db 1988 AGGTTTTTTACAGCTTTTATGATCAATGGTAGATACAGGCTTAAATATATGGGCTCTGGGA 2047
QY 2062 GGATTTAAAGCCAGCCAGACGAGAGTATACCCAGCAGAGTGGAGCAGCTGTACATACCT 2121
Db 2048 GGAGTCACCTTCAGACAGACAGAGCAGCAGCTCCGAGACAGACCCATGTTACATAGAT 2107
QY 2122 GCGTGAATGAGATGATCAATCAATCAATGGAATCCACCAAGCCTGAAATTAATAGGAT 2181
Db 2108 GCGTGAATGAGATGATGGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAAT 2162
QY 2182 GATGTTTCAACACAGCAAGTGTGTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGGCT 2241
Db 2163 ATGTTTCAAGACAGCAGCTGTGTTTCAGCAGAAACATCTCGGAGGATGCTTTGTGGCT 2221
QY 2242 TCTGATGTC---CAATGCTCCCACTGATCTCTTCCACCTGGCCAAATCACCGAC 2298
Db 2222 ACCAATGTCCCGCAGCAGCTCCCACTGATCTCTTCCACCTGTCAATCACTGAC 2281
QY 2299 CTGAAGGGGGAATTCAGGGGGGAGTCTCATTAATCTGACTTGGACAGCTCCTGGGAT 2358
Db 2282 CTGAAGGGGAGATCCAGGGGAGCAACCTGTTGAATCTGACGTGACGCTCCTGGGAT 2341
QY 2359 GATTATGACCTGGAACAGCTCACAGTATATCATTCGAATGATGATGATGATGATGATGAT 2418
Db 2342 GACTACGACACCGGAGAGCTTCCAACTACATCATCCGAATGAGCAGCAGTCTGTTGAT 2401
QY 2419 CTCAGAGCAAGTTCAATGAATCTCTTCAAGTGAATCTGCTCTCATCCCAAGGAA 2478
Db 2402 CTCAGGACCACTTCAACACCTCACTCCCAAGTGAACACTACGGTCTTATCCCAAGAG 2461
QY 2479 GCCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAAAACATTAATTTGAAAAATGGACA 2538
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QY 2539 GATCTTTTCAATGATTCAGCTGTTGATTAAGTTCGATCTGAATGATGATGATGATGATGAT 2598
Db 2522 GATATCTTCAATGATTCAGGCTGTGATTAAGTTCGAATCTGAAATCAGAAATCTCCAA 2581
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QY 2719 TTAATAATATGTTGAAGTGTGATAGGAGAACTGCGAGCTGTCAATAGCTAGGCTGGAATT 2778
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## RESULT 6

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US-10-270-595-1
; Sequence 1, Application US/10270595
; Patent No. 6715603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
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; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2931
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (8)..(2746)
US-10-270-595-1
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Query Match 62.0%; Score 1743; DB 4; Length 2931;
Best Local Similarity 77.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 595; Indels 21; Gaps 4;

QY 25 ATGGGGCCATTTAAGAGTCTCTGCTTCTCATCTTGAATCTTACCTTCTAGAAGGGGCCCTG 84
Db 8 ATGGAATCTTTGAAGAGTCTCTGCTTCTCTTGTATCTCTCCACCTTCTGGAAGAGTCTG 67
QY 85 AGTAATTCACCTCATCTAGCTGAAACAACTATGAGGCTATGAGGCTATGCTGTCATCGAC 144
Db 68 AGTGAGTCCCTCATCCAACTGAAACAACTATGAGGCTATGAGGCTATGCTGTCATCGCATAG 127
QY 145 CCCAATGTGCCAGAAAGTAAACACTCATTCACAAATAAAGGACATGGTGACCCAGGCA 204
Db 128 CACGACGTGCGGAAGATGAAGCCCTCATTCACACATAAAGGACATGGTGACCTCAGGCC 187
QY 205 TCTCTGATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATGTTGCCATTTG 264
Db 188 TCTCATACCTGTTGAAGCTACAGGAAGAGATTTTACTTTCAAAAATGTTGCCATTTG 247
QY 265 ATTCTGAAACATGGAAGACAAAGGCTGACTATGTAGACCAAAACTTGAAGACCTACAA 324
Db 248 ATTCGAGAGCTGGAAGGCAAGCCCTGATATACAGGCGCAAACTTGAACCTTCAA 307
QY 325 AATGCTGATGTTCTGGTGTGCTGATCTATCTCTCCAGGTATGATGAACCTTACACTGAG 384
Db 308 AACGCTGATGTTCTGTTATCAACACGAGCCCTCTAGGCAATGATGAGCCTTACCGAA 367
QY 385 CAGATGGCAACTGTGAGAGAGGCTGAAGGATCCACTCACTCTCTGATTTCAITGCA 444
Db 368 CATATAGGAGCATGTGGAAGAAAGGGGATCAGGATTCACCTGACTCTCTGACTTCTAGCA 427
QY 445 GGAAGAAAGTTAGCTGAATATGACCAAGGCTAGGCGATTTGTCCATGAGTGGGCTCAT 504
Db 428 GGAAGAAAGTCTGACTGATGAGGCGCAAGACAGGACCTTTGTCTCATGAGTGGGCTCAC 487
QY 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAATGGA 564
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QY 2719 TTAATAATTATGTGGAATGGATAGGAACTGCAGCTGTCAATAGCTAGGGCTGAATT 2778  
Db 2693 CTGAAGATAATGTGGAAGTGGCTAGGGGAAATGCAGGTGACACTAGGTTTGCACTGAATT 2752  
QY 2779 TTGTGTCAGATAATAAA 2795  
Db 2753 TTCAGGCAAGAAATCAA 2769

RESULT 7  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 850:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1512 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLANOT01  
; CLONE: 608819  
; US-09-016-434-850

Query Match  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1301 AACAAAGTGTGGCATCATCCACAGTCTGCGGCGCCCTTGGGGCCCTCTGCAGCTCAAGAACTAG 1360  
Db 1 AACAAAGTGTGGCATCATCCACAGTCTGCGGCGCCCTCTGCAGCTCAAGAACTAG 60

QY 1361 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 1420  
Db 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAA 120

QY 1421 ATGGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCAGCGCT 1480  
Db 121 ATGGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCAGCGCT 180

QY 1481 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAAACAGCAGTGTGATGAATGGCACAG 1540  
Db 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAAACAGCAGTGTGATGAATGGCACAG 240

QY 1541 TGATCGTGGACAGACCGTGGGAAAGGACACTTGTGTTTCTTATCACCTGGCAACAGCAGC 1600  
Db 241 TGATCGTGGACAGACCGTGGGAAAGGACACTTGTGTTTCTTATCACCTGGCAACAGCAGC 300

QY 1601 CTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGACA 1660  
Db 301 CTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGACA 360

QY 1661 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTTGGCAGTTGGAAAT 1720  
Db 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGTTGGCAGTTGGAAAT 420

QY 1721 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGTACTGTACGTCCCGTGGCTCCAATG 1780  
Db 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGTACTGTACGTCCCGTGGCTCCAATG 480

QY 1781 CTACCTCGCTCCAAATTACAGTGACTTCCAAACCAAGCAAGCAAGCAAGCAAGCAAGCA 1840  
Db 481 CTACCTCGCTCCAAATTACAGTGACTTCCAAACCAAGCAAGCAAGCAAGCAAGCAAGCA 540

QY 1841 GCCCTCTGTAGTTTATGCAAAATATTGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTG 1900  
Db 541 GCCCTCTGTAGTTTATGCAAAATATTGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTG 600

QY 1901 TCACAGCCCTGATTGAATCAGTGAAATGGAACAGTTTACCTTGGAACTTACTGGATAATG 1960  
Db 601 TCACAGCCCTGATTGAATCAGTGAAATGGAACAGTTTACCTTGGAACTTACTGGATAATG 560

QY 1961 GAGCAGGTGCTGATGCTACTTAAGGATGACGTGCTACTCTCAGGTATTTCACAACTTATG 2020  
Db 661 GAGCAGGTGCTGATGCTACTTAAGGATGACGTGCTACTCTCAGGTATTTCACAACTTATG 720

QY 2021 ACAGAAATGGTAGATACAGTCTAAAGTGGCGGCTCTGGGAGGAGTTAACGAGCCAGCAG 2080  
Db 721 ACAGAAATGGTAGATACAGTCTAAAGTGGCGGCTCTGGGAGGAGTTAACGAGCCAGCAG 780

QY 2081 GGAGAGTGATACCCAGCAGAGTGGAGCAGTGTACATACCTGGCTGGATTGAGAAATGATG 2140  
Db 781 GGAGAGTGATACCCAGCAGAGTGGAGCAGTGTACATACCTGGCTGGATTGAGAAATGATG 840

QY 2141 AAATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG 2200  
Db 841 AAATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG 900

QY 2201 TGTGTTTCAGCAGAAATCCTCGGGAGGCTCATTTGTGGCTTCTGTGATGCCAAATGCTC 2260  
Db 901 TGTGTTTCAGCAGAAATCCTCGGGAGGCTCATTTGTGGCTTCTGTGATGCCAAATGCTC 960

QY 2261 CCATACCTGATCTTCCACCTGGCCAAATCACCAGCTGAAAGCGGAAATTCACGCGGG 2320  
Db 961 CCATACCTGATCTTCCACCTGGCCAAATCACCAGCTGAAAGCGGAAATTCACGCGGG 1020

QY 2321 GCAGTCTCATTAATCTGACTTGGACAGCTCCTCGGGATGATGATGACCTGGAAACAGCTC 2380  
Db 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCCTCGGGATGATGATGACCTGGAAACAGCTC 1080

QY 2381 ACAAGTATATCATTCGAATAAGTACAGTATTCTTGATCTCAGAGCAAGTTCAATGAAT 2440  
Db 1081 ACAAGTATATCATTCGAATAAGTACAGTATTCTTGATCTCAGAGCAAGTTCAATGAAT 1140

QY 2441 CTCCTCAAGTGAATACCTGCTCTCATCCAAAGAAAGCCAACTCTGAGGAGTCTTTT 2500  
Db 1141 CTCCTCAAGTGAATACCTGCTCTCATCCAAAGAAAGCCAACTCTGAGGAGTCTTTT 1200

QY 2501 TGTTTAAACACAGAAACATTTACTTTTGAATGAGCAAGATCTTTTCATTTGCTATTTCAGG 2560  
Db 1201 TGTTTAAACACAGAAACATTTACTTTTGAATGAGCAAGATCTTTTCATTTGCTATTTCAGG 1260



US-09-049-698-16

of

1038 TGAGCTGGGTCCTGGGTGGGATGGGTGACATTTGACAGTCTGCCATGTACAAAGTGA 1097  
1027 TGAATAATGAGTCTCTGGGTGGGATGGGTTCATCTTTGATAGTACTGCCATATTGTAATAA 1086  
1098 ACTCATACAGATAAAGAGTGGCAGTGGACAGGACACACTCGCCAAAGATTAACCTGCAGC 1157  
1087 GCTAATCCAAATAAAGCAGTGTGATGAAGAAACACACACTCATGGCAGGATTACCTACATA 1146  
1158 AGCTTCAGGAGGAGCTCCATCTGCAGCGGCTTCGATCGCATTTTACTGTGATTAGGAA 1217  
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1267 TGCAGTCTCTGATTTGATGATGAAGTGAACAAAGTGGGCGCAATGTTCAITTTATTGCTTT 1326  
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1627 AATAATGAATAATTCAGTGGATGGCACTTCCAAATGGCTATCTCAGTATTTCCAGG 1686  
1695 CATTGCTAAGTGGCACTTGGAAATACAGTCTGC-----AAGCAAGCTCACAACCTT 1748  
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1747 AACTTATACAGTAACTTCTGAGCAGCAAAATCTTCTGCTCCAAATCAGTGAATGC 1806  
1809 CAAACGAAACAGGACACCAAGCAAAATCCCGAGCTCTGCTGATTTATGCAATATTCG 1868  
1807 TAAATGAATAAGCAGTAAACAGTTTCCCGAGCCCAATGATTTTACGCAAAATCT 1866  
1869 CCAAGGAGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTCGAATCAGTGG 1928  
1867 ACAAGGATATGATCTGCTTGGAGCAATGTGACGTCTTTCAATGAATCAGAAATG 1926  
1929 ABAACAGATTACCTTGAATCTGGAATATGGAGCAGGTGCTGATGCTACTAAGGATGA 1988  
1927 ACATACAGAGTTTGGAACTTTTGGATATGTTGGAGCGCTGATTTCTTCAAGATGA 1986  
1989 CGGTGCTACTCAGGTATTTCAACTTATGACAGCAATGGTATGATACAGTGTAAAGT 2048  
1987 TGGAGTCTACTCAGGTATTTTACAGCATATACAGAAATGGCAGATATAGCTTAAAGT 2046  
2049 GCGGCTCTCGGAGGATTAACGAGCAGCAGCAGAGTGTATCCCGCAGCAGAGTGGAGC 2108  
2047 TCGGCTCTGAGGAGCAGCAACTGCCAGCTTAAATTTACGGCTCCCACTGAATAGAGC 2106  
2109 ACTGTACATACCTGGCTGGATTGAGATGATGAATACAAATGGAATCCCAAGACCTGA 2168

Db 2107 CGGTATACATACCAGGTGGGTAGTGAACCGGAAATTTGAAGCAACCGCCAGACCTGA 2166  
QY 2169 AATTAAATAAGGATGATGTTCAACACAGCAAGTGTGTTTACGACAGAAATCTCTCGGAGG 2228  
Db 2167 AATTGAT---GAGATACTCAGACCACCTTTGGAGGATTTTTCAGCGCAACAGCATCCGAGG 2223  
QY 2229 CTCAATTTGGTCTCTGATGTCCTCAATATGCTCCCATACCTGATCTCTTCCCACTGGCCA 2288  
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QY 2289 AATCAGCAGCTCAAGCGGAAATTCACGGGGCAGTCTCATTTAATCTGACTTGGACAGC 2348  
Db 2284 AATCAGACAGCTTTGATGCCACAGTTCATGAGG---ATAAGATTATCTTACATGGACAGC 2340  
QY 2349 TCCCTGGGATGATTATGACCATGGAACAGTTCATGAATCTCTTCAAGTGAATACTACTGCTCAT 2468  
Db 2341 ACCAGAGATTAATTTGATGTTGGAAAGTTCACCGTTATATCATGAATTAAGTGAAG 2400  
QY 2409 TATCTTGATCTCAGACAGCAAGTTCATGAATCTCTTCAAGTGAATACTACTGCTCAT 2468  
Db 2401 TATCTTGATCTAAGAGACAGTTCATGATGCTCTTCAAGTGAATACTACTGCTCAT 2460  
QY 2469 CCCAAGGAGCAACTCTGAGAGAGTCTTTTGGTTTAAACAGAAACATTTCTTGA 2528  
Db 2461 ACCAAGGAGGCAACTCCAGGAAAGCTTTCGCAITTTAAACCCAGAAATATCTCAGAA 2520  
QY 2529 AATGCGCAGACATCTTTTCATTTGCTTATTCAGGCTGTTGATGAAGTCTGATCAATCAG 2588  
Db 2521 AATGCAACCCACATATTTATTTGCCATTAAGTATAGATAAAAGCAATTTGACATCAA 2580  
QY 2589 AATATCCAACATTCAGCAGATCTTTTGTATTTATCTCCACAGACTCCGCGCAGACACC 2648  
Db 2581 AGTATCCAACATTCAGCAAGTAACTTTGTTATCTCCCTCAAGCAATCTGATGACATGA 2640  
QY 2649 TAGTCTGATGAAGAGTCTGCTGCTTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 2689  
Db 2641 TCTACTCTACTCTCTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2681

## RESULT 9

US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:

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798	Qy	AGTCTCCAAAACGAAGCAAAATCAAAATGCAATCTCGAAGACATCGGAGTATGATCGGTGA	857
798	Db	AGTCTCCAAAGCCTACAAAACATAAAGTGCAAATTTTAGAAGTATCATGGAGGTGATTAGCAA	857
858	Qy	TTCTGAGGACATTTAAGAAAAACCATCTCTATGACACACAGCCACCAAAATCCCAACCTTCTC	917
858	Db	TTCTGAGGATTTTAAAAACCATACCCATCGTGACACCACTCTCTCCACCTGCTTCTTCTC	917
918	Qy	ATTGCTGCAGATGGACAAAAGAAATTTGTGTTTAGTCTTGTACAAATCTGGAAGCATGGC	977
918	Db	ATTGCTGGAAGATCAGTCAAAGAAATTTGTGTGCTTAGTTCTTGTATAAGTCTGGAAGCATGGG	977
978	Qy	GACTGGTAAACGCCCTCAATTCGACTGAAATCAAGAGGCCAGCTTTTCTGCTGACAGACT	1037
978	Db	GGTAAAGGACCGCTAAATCGAATGAAATCAAGCAGCAAAACATTTCTGCTGACAGACTGT	1037
1038	Qy	TGAGCTGGGTCTCTGGGTGGGATGGTGACATTTTGACAGTGTGCCCCATGTACAAAGTGA	1097
1038	Db	TGAAAATGGATCTCTGGTGGGATGGTTCACTTTGTATGACTTGTCCACTATTGTGAATAA	1097
1098	Qy	ACTCATACAGATAAAACAGTGGCAGTGACAGGGACACACTGCGCCAAAGATTACTCGCAGC	1157
1098	Db	GCTAATCCAAATAAAGACAGTGAATGAAAGAAACACACTCATGGCAGGATTTACCTACATA	1157
1158	Qy	AGCTTTCAGAGGAGCGTCCATCTGACAGCGGCTTCGATCGGCATTACTGTGATTAGGAA	1217
1158	Db	TCCTCTGGGAGAACTTCCATCTGCTCTCGGAAATTAATATGCAATTTCCAGTGTATGGAGA	1217
1218	Qy	GAATATAT---CAAACCTGATGGATCTGAAATTTGTGCTGCTCACGGATGGGGAAGACAAC	1274
1218	Db	GCTACATTCCTCAACTCGATGGATTCGGAAGTACTGCTGCTGACTGATGCGGAGGATAACAC	1277
1275	Qy	TATAAGTGGGTGCTTTAAACGAGCTCAAAACAAAGTGGTGCCATCATCCACACAGTCGCCTT	1334
1278	Db	TGCAAGTCTTGTATTGATGAAGTGAACAAAGTGGGGCCATGTTTCATTTATTGCTCTT	1337
1335	Qy	GGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGGAGGTTTACAGAC	1394
1338	Db	GGGAAGAGCTGCTGATGAACAGTAAATAGAGATGAGCAAGATAACAGAGGAAAGTCAATT	1397
1395	Qy	ATATGCTTCAGATCAAGTTCAGAACCAATGGCTCATTTGATGCTTTTGGGGCCCTTTCATC	1454
1398	Db	TTATGTTTCAGATGAAGCTCAGAACCAATGGCTCATTTGATGCTTTTGGGGCTCTTACATC	1457
1455	Qy	AGGAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTGAAGGATTTAACCTCCA	1514
1458	Db	AGGAATACTGATCTCTCCAGAAAGTCCCTTCAGCTCGAAAGTAGGGAATTAACACTGAA	1517
1515	Qy	GAACAGCCAGTGAATGAATGGCACAGTGAATCGTGGACAGCCGTGGGAAAGGACACTTT	1574
1518	Db	TAGTAATGCCCTGGATGAACGACACTGTCATAATTTGATAGTAGTACGTTGGGAAGGACACGTT	1577
1575	Qy	GTTCCTTATCACCTGGACACGCGAGCTCCCCAAAATCCTCTCTGGGATCCAGTGGACA	1634
1578	Db	CTTTCTCATACATGGAAAGTCTGCGCTCCAGTATTTCTCTCTGGGATCCCAGTGGAAAC	1637
1635	Qy	GAAGCAAGGTGGCTTTGTAGTGGACAAAAACACAAAATGGCCTACCTCCAATCCCAGG	1694
1638	Db	AATAATGMAAATTTTCAGTGGATGCAATTTCCAAAATGGCCCTATCTCAGTATTCCAGG	1697
1695	Qy	CATTGCTAAGGTTGGCACTTGGAAATACAGTCTGC-----AAGCAAGCTCAAAACCTT	1748
1698	Db	AACGTCAAAGGTGGGCATCTGGGCATACAACTTCAAGCCAAGCGAACCCAGAAACATT	1757
1749	Qy	GACCCTGACTCTACGTCGCCCTGGCTCCCAATGCTACCTGCTCCAAATTCAGTGACTTC	1808
1758	Db	AACATTTACAGTAACCTTCTCGAGCAGCAAAATTTCTTCTGTGCTCCCAATCACAGTGAATGC	1817
1809	Qy	CAAAACGAACGAAGGACACAGGAAATTTCCCGAGCCCTCTGGTAGTATTATGCAAAATTCG	1868



2014 GGACAAATGCTGAGTCTGATCTCAAGAAATGATGCAATCTACTCAGATCTTTA 2073  
 2012 CAACCTTATGACACAAATGCTAGATACAGTGTAAAGTTCGGGGCTCTCGGAGAGTTAACG 2071  
 2074 CAGATCTACTATGGAATGCTAGATACAGTGTAAAGTTCAGTACAGCAGGCAAGAAACA 2133  
 2072 CAGCAGACGAGAGTGTATACCCAGCAGAGTGTAGCAGTGTATACATCTGCTGGTGGATTG 2131  
 2134 CGGCTAGGCTAAATTTAAGACCAACACAGACAAAGTCTATATGTTCCAGGCTACGTTG 2193  
 2132 AGAATGATGAATACAAATGGAATCCACCAACCTGAAATTAATAAGATGATGTTCAAC 2191  
 2194 AAAACGGTAAATTTATCTGAACCCACCCAGCTGAAAGTCAAGATGACCTGGCAAG 2253  
 2192 ACAGCAGTGTGTTTACAGCAGACATCTCTGGGAGGCTCAATTTGCTGCTTCTGATGTC 2251  
 2254 CTAAATTAAGAGACTTTTACGACATCACTCTGGAGGCTCAATTTCTGATCAGGAGTCT 2313  
 2252 CAATGCTCCCA---TACCTGATCTCTCCACCTGGCCCAATCACCGACCTGAAGCGG 2308  
 2314 CTCCTCTGGTAAATCACCTCTGTTTCCCAACCCAGTAAATTAAGATCTTGGAGCTA 2373  
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 2374 AGTTCAAAAGAG---ATTATATTCAACTTTCAAGTAAAGTAAAGTTCATGGATCGTCAAGA 2430  
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 2489 AGGAAGCTTTTGTGTTTAAACCAAGAAACATTAATTTGAAATGACACAGATCTTTTCA 2548  
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 2549 TTGCTATTCAGGCTGTGATAGTCTGATGATGATGATGATGATGATGATGATGATGATG 2608  
 2611 TTTTCTCAGTCCAGCAATCAAGGAGCCAACTCTATCTCAGAGGTTTCTCAGATGTTACA 2670  
 2609 TATCTTTGTTTATCTCTCCAC 2629  
 2671 CAATCAAAATTTATCTCTTAC 2691

RESULT 11

US-10-055-412B-1  
 ; Sequence 1, Application US/10055412B  
 ; Patent No. 6692939  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0058  
 ; CURRENT APPLICATION NUMBER: US/10/055.412B  
 ; CURRENT FILING DATE: 2001-10-29  
 ; PRIOR APPLICATION NUMBER: US/09/193,562  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 1  
 ; LENGTH: 3317  
 ; TYPE: DNA  
 ; ORGANISM: Unknown  
 ; FEATURE:  
 ; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated protein from  
 ; OTHER INFORMATION: endothelial cells  
 ; US-10-055-412B-1

893 CACAGCCACCAATCCACCTTCTCATTTGCTGAGATTTGACAAAGAAATTTGTTGTTAG 952  
 940 ATCCACGAGCTCATCTTACATTTTCTGCTCAAGTCCAAACAGCGGGTATGTTGTTGG 999  
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 1000 TACTTGATTAATCTGGAAGATGCTGAGAGAGCTGCTCTTTCAATGAATCAAGCAG 1059  
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 1060 CAGAACTATATCTGATTCAGTTATGAAGAGGATCTTTAGTTGGGATGTTTACATTTG 1119  
 1073 ACAGTGTGCTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1132  
 1120 ACAGTGTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1179  
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 1474 CTAAATGCTTTTCAAGTAAATTTTATAGAGTGGAGCATCACTCAGCAGGCTATTACGT 1533  
 1490 TTGAGAGTAAAGATTAACCTCCAGAACAGCGAGTGAATGGAATGGAATGATGATGATG 1549  
 1534 TGGAAAGCAAGCTTCAAAATTAACAGAAAGGAAAGAGTAAACGGACAGTGCCTGATG 1593  
 1550 ACAGCAGCTGGGAAAGACACTTTGTTTCTTATCAGCTGAGCAACCGAGCTCCCAAA 1609  
 1594 ACATCAGTTGGAATGACACTTTCTTTGTTGTCATGATGATGATGATGATGATGATGATG 1653  
 1610 TCCTTCTCTGGGATCCAGAGTGGACAGAGCA-----AGTGGCTTTGATGAGCA 1660  
 1654 TTGTTCTCCAAAGTCCAAAGGAAAGAAATATAAAACCTCGATTTTCAAGAGATAGT 1713  
 1661 AAAACACCAATGAGCTTACTCCAAATCCAGGATTTGATGATGATGATGATGATGATGAT 1720  
 1714 TAAATATTCGATGCTGCTGCTGCAAAATTAATCTGATGATGATGATGATGATGATGATG 1773  
 1721 ACAGTCT-----GCAAGCAGCTCACAACCTTCAACCTGATGATGATGATGATGATGATG 1771  
 1774 ACAGCTTCTAAATATCATGCCAGCTCTCAAAATGCTAAAGTGAAGTGAAGTGAAGTGA 1833  
 1772 CGTCAATGCTACCTGCTCAATTAAGTGAATGATGATGATGATGATGATGATGATGATGAT 1831  
 1834 CAAGAAGTCTTACTATACCCCAAGTAAATGCAACAGCTCAGATGATGATGATGATGATGAT 1893  
 1832 AATTTCCAGGCTCTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1891  
 1894 ATTATCTAGCCCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1953  
 1892 GGGCAGTGTACAGCCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1951  
 1954 GAATCAGTGAATAGCCATTAAGAAACCGAAGATGATGATGATGATGATGATGATGATGAT 2013  
 1952 TGGATTAATGAGCAGGTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATG 2011

Query Match		32.0%; Score 900.2; DB 4; Length 3317;
Best Local Similarity		61.4%; Pred. No. 2.6e-263;
Matches 1635; Conservative 0; Mismatches 978; Indels 48; Gaps 10;		
Qy	5	TCACAGGAGATGACAGCAATGGGCAATTAAGAGTTCGTGTTCACTTTGATTTTGGATGTTTACATTTG 1119
Db	43	TTACTGTAAACATGTGCAAAATGGTCTCTCTGAATGTTTATTTCTCTTCTTAACATTTGC 102
Qy	65	ACCTTCTAGAGGGCCCTCAGTAAATCACTCAATTCAGCTGAACAACAATGGCTTATGAAG 124
Db	103	ATCTCTTGCCCTGG---AATGAAAGATTCAATGGTAAATTTGATTAAACATGGGTATGATG 159
Qy	125	GCATTGTCGTTGAATCGACCCCAATGTGCAGAGATGAACAACACTCAATCAACAATAA 184
Db	160	GCATTGTCATGTCAATTAACCCAGTGTGCAGAGATGAACAACACTCAATGAAACATAA 219
Qy	185	AGGACATGTGTGACCCAGGCACTCTGTATCTCTGTATCTGTTGAGCTACAGGAACGGATTTTAT 244
Db	220	AGGAATGTTAACTGAAGCTTCTACTTACCTCTGTTTCATGCCCAACGGAAGATTTAT 279
Qy	245	TCAAATATGTTGCCATTTTGAATTCCTGAACAATGGAAGACAAAGGCTGACTATGTGAGAC 304
Db	280	TCAGGAATGTGAGCAATTTAAATTCCAATGACCTGGAAATCAAAATCTGAGTACTTCAATC 339
Qy	305	CAAACTTCGAGACCTACAAATATGCTGATGTTCTGCTGTGCTGAGTCTACTCTCTCCAGGTA 364
Db	340	CAAAACAAGATCATATGACCAGGAGATGTCTATGTTGCTATCTCTTCTTAAATATG 399
Qy	365	ATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGAGAGAGGTGAAGATCCACC 424
Db	400	GAGATGATCCCTATACACTTCAATATGGAAGGTGTGGAGAAAGGAAATATATACAT 459
Qy	425	TCACCTCTGATTTCAATGCGAAGAAAGTTAGCTGAATATGACACACAAGGTGAGGCAT 484
Db	460	TTACTCCAACTTCTTGTGACTAATAATTTCCACATCTATGGTCCCGAGCGCAGAT 519
Qy	485	TGTCCATGAGTGGCTCATCTACATGGGAGTATTTGACGAGTACATAATATGATGAGA 544
Db	520	TGTCCATGAGTGGCCCATCTCCGCTGGGAAATATTTGATGAGTATAATGTGGACCCAGC 579
Qy	545	AATTCTACTTATCC---AATGGAAGATACAGCAGTAAAGTATGACACACAAGGTGAGGCAT 601
Db	580	CAITCTATTTCCAGAAGAACACTATTGAAGCAACAGATGTTCAACTCATATTAATCTG 639
Qy	602	GTACAAATGTAG---TAAAGAGTGTACAGGAGGAGCTGTTTACACCAAAAGATGCACAT 658
Db	640	GTATTAATGTGGTTTCAAGAAATGCCCTGGAGGAGCTGTATAACAAGTCTATGACAGC 699
Qy	659	TCAATAAGATACAGGACTCTATGAAGAAAGATGTGAGTTTGTCTTCCAAATCCGCCAGA 718
Db	700	GTGACTCACAGACAGGGCTGTATGAAGCAAAATGTACATTCCTTCCAAATAAATCCCA 759
Qy	719	CGGAGAGGCTTCTATATGTTTGCAACAATGTTGATTTCTATAGTTGAATTTGTACAG 778
Db	760	CTGCAAGGAATCATATGTTTATGCAAGTCTCCATTCCTGTGACTGAATTTGTACAG 819
Qy	779	AACAAACACACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAAGCA 838
Db	820	AAAAACACACATACAGAGCTCCAAACCTACAAACAAATGTGCAATGGCAAAAGCA 879
Qy	839	CATGGGAAGTATCCGTTATCTGAGACTTTTGAAGAAACCACTCTTATGACA-----A 892
Db	880	CATGGGATGTAATCATGAACTCTGTGACTTTTCAAGATACATCTCCCATGACAGAAATGA 939
Qy	893	CACAGCCACCAATCCCACTTCTCATGCTGCGAGATTGCAAGAAATTTGTGTTTATG 952
Db	940	ATCCACGACTCATCTTACATTTTCAATGCTCAAGTCCAAACAGCGGTAGTCTGTTTGG 999
Qy	953	TCCTTGACAAATCTGGAAGCATGGCACTGGTAACCGCCCTCAATCGACTGAATCAAGCAG 1012
Db	1000	TACTTGATAAATCTGGAAGCATGCTGCAAGACCGCTCTCTTTCAATGAATCAAGCAG 1059
Qy	1013	GCCAGCTTTTCTGCTGCAGACAGTTAGCTGGGGTCTCTGGGTGGGATGGTGACATTTG 1072
Db	1060	CAGAACTATATCTTGAATCAAGTTATTGAAAAGGATCTTTAGTTGGGATGTTTACATTTG 1119
Qy	1073	ACAGTGTGCCCCATGTACAAAGTGAATCTATACAGATAAAGTGGCAGTGACAGGACACA 1132
Db	1120	ACAGTGTGTGAATCCAAATCATCTAAACAAGATAACTGATGATGATAAATGTTTACCAA 1179
Qy	1133	CACCTGCGCAAAAGATTACCTGCGACAGCTTCAGGAGGAGCTCCATCTGAGCGGGCTTC 1192
Db	1180	AGATCACCGCAAAATGCTCTCAAGTAGTAATGGTGAACCTTCAATTTGTAGAGGGTCA 1239
Qy	1193	GATCGGCAATTTACTGTGATTAGGAAGA---AATATCCAACTGATGATCTGAAATTTGTC 1249
Db	1240	AAGCAGGATTCGAGGCAATTTATCCAGTGAACAGAGTACTTCTGCTGTTCTGAAATCATAC 1299
Qy	1250	TGCTGACGAGTGGGGAAGACCAACACTATTAAGTGGTGTCTTAAAGAGGTCAACAAGTG 1309
Db	1300	TATTAATGATGGGGAAGATATGAATAAATTCATGCTTTGAGGATGTAATAACGAAGTG 1359
Qy	1310	GTGCCATCATCCACACAGTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGT 1369
Db	1360	GTGCAATCATCCACACCATTTGCTCTGGACCTCTGCTGCCAAGAACTGGAGACATTTG 1419
Qy	1370	CCAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAACAATGGCCTCA 1429
Db	1420	CAAAATATGACAGGAGATATCGTTTTTTTGCCTTGAAGATGTAATAACGAGTAACTG 1473
Qy	1430	TTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGCTCTCAGCCCTCCATCCAGC 1489
Db	1474	CTAATGCTTTCACTAGATTTTCTCTAGAGTGGAGCATCTCTCAGCAGGCTTATTCAGT 1533
Qy	1490	TTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCAGAGTATGCTG 1549
Db	1534	TGGAAGCAAGCCCTTGAAATTTACAGGAAGAAAGATGAACGCCAGTGCCTGTAG 1593
Qy	1550	ACAGCACCTGGGAAGAGCACTTTGTTTCTTATCACCCTGGACAGCAGCTCCCAAAA 1609
Db	1594	ACAGTACAGTTGGAATGACACTTTCTTTGTTGTTCACATGACATACAAAAACAGAAA 1653
Qy	1610	TCCTTCTCTGGGATCCCACTGCGACAGAGCA-----AGTGGCTTTGTAGTGGACA 1660
Db	1654	TTGTTCTCAAGATCCAAAGAAAGAAATATAAACCTCGGATTTTCAAGAGATAAGT 1713
Qy	1661	AAACACCAAAATGCCCTTACCTCCAAATCCCAAGCATTTGTTAAGTGGCACTTTGGAAT 1720
Db	1714	TAAATATTGATCTGCTCGTCTGCAATACCTGCTATTTGACAGACAGGTTACTTGGACT 1773
Qy	1721	ACAGTCT-----GCAAGCAAGCTCAAAAACCTTGACCCCTGACTGTCTCACGTCCTG 1771
Db	1774	ACAGCTTCTAAATTAATCATGCCAGCTCTCAAAATGCTTAAACAGTGAAGTGAACCTCGAG 1833
Qy	1772	CGTCCATGCTACCCCTCCCAATTAAGTGAATGAAATGAAATGAAATGAAATGAAATGAAAT 1831
Db	1834	CAAGAGTCTCTACTATACCCCAAGTAAATGCAACAGCTCAATGAGTGAACATGAGTGAAC 1893
Qy	1832	AATTCCTCCAGCTCTGTTAGTTTATGCAAAATTTGCAAGAGGCTCTCCCAATTTCTCA 1891
Db	1894	ATTATCTGACCCCAATGATTTGTTTATGCAAGTCAAGTCAAGGTTTTCCTCTGTTACTG 1953
Qy	1892	GGGCGAGTGTACAGCCCTGATTTGAATGAGTGAATGAAATGAAATGAAATGAAATGAAAT 1951
Db	1954	GAATGAGTGAATGAGCCATTATAGAAACCGAAGATGAGATCAAGTGAACATTTGAGGCTCT 2013
Qy	1952	TGGATAATGGAGCAGTGTGCTGATCTACTAAGATGACCGTGTCTACTCAAGATTTTCA 2011
Db	2014	GGGCAATGGTGGGCTGCTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 2073
Qy	2012	CAACTTATGACAGCAATGGTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 2071
Db	2074	CAGATTACTATGGAATGCTGATACAGTTTAAAGTGAATGATGATGATGATGATGATGATGAT 2133
Qy	2072	CAGCCAGCGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTG 2131

201 TACCTGTTTGAGCCAGCCAAAGGAGTGTATTTTCAGGAACAATAGCAATATTAGTCCCG 260

271 GAAACATGGGAAGCAAAAGGCTGACTATGTGAGACCAAAATCTTGAGACCTTACAAAATGCT 330

261 ATGACCTGGGAAGTCGAAATCTGAGTACTTAATGCCCCAAACGAGATCTGACGAAAGCA 320

331 GATGTTCTGCTGCTGAGTCTACTCCTCCAGGTAAATGATGAACCCCTTACACTGAGCAGATG 390

321 GAGCTCATAGTTGGGATCCTCACTGCAACATGGAGACGACCCCTACACCCCTTCAGTAT 380

391 GGCAACTGTGGAGAGAGGTGAAAGGATCCACTCACTCCTGTGATTTCAATTCGACGAGAAA 450

381 GGACAGTGTGGGACAGAGCAGTACATACACTTCACTCCAACTTTCTTCACTCATGTAT 440

451 AAGTTAGCTGMAATATGACACACAAGGTAGGGCAATTTGTCCATGAGTGGGCTCATCTACGA 510

441 AACTTGGGTATCTATGACCCCCGAGGACAGAGTCTTTGTCCATGAGTGGGCCCACTCCCG 500

511 TGGGGGATTTTGACGAGTACAATAATGATGAGAAATTTCTATTATCCA---ATGGAAGA 567

501 TGGGGAGTATTTGATGAGTATTAAGCTGACCGGTCACTTTTACATTTCTAGAAAGAACACT 560

568 ATACAAGCAGTAAAGATGTTTCAGCAGGTATTACTGTGTACAATGTAGTAAAGAGTGTTCAG 627

561 ATAGAAGCAACAAGGTGTCGCCGAGCATCACAGGCAAGAGGTGTGTCCAGAGTGTTCAG 620

628 GGAGGCAGCTGTACACCAAAAGATGCACATTCAAATAAGTAAACAGGACTCTATGAAAAA 687

621 AGAGGCGACTGTGTGACAAGGGGTGCCGGGTGACTCTGAGAGACACGGCTGTATGAACCC 680

688 GGATGCTGAGTTGTCTCCAATCCCGCCGACGCGAAGAGGCTTCTATAATGTTTGCACAA 747

681 AAATGTACATTTATCCGACAGAAATACAGACAGCTGGGGCTCCATAATATTTCATGCAA 740

748 CATGTTGATTTATAGTTGAATTCGTGTACAGAAACAACAACACACAAAGAGCTCCAAAC 807

741 AACCTCAATTTCTGGTTGAAATTTTGCAAGAAAAATTAACCAATATGCAAGAGCCCCAAC 800

808 AAGCAAAATCAAAATGCAATCTCGAAGCACATGGGAAGTGATCCGTTGATTTCTGAGGAC 867

801 CTACAAAACAAAATGTCAATCGCAGAGACGTGGGATGTAACTCAAGACGCTCTGCTGAC 860

868 TTTTAAAAAACCACTCCCTATG-----ACAACACAGCCACCAATCCCACTTCTCATTTG 921

861 TTTTCAAGATGCCCTCCCATGAGAGGAACAGAGGCCCTCTCCACCTTACATTTTATCTG 920

922 CTGCAATTTGGAACAAAGAAATGTGTGTTTGTCTTGTACAATCTGAGAGCATGCGGACT 981

921 CTCAAGTCCAGAAGCGGAGTGTGTGCTTGTGTGGATAATCTGGAAGCATGTGACAAA 980

982 GGTAAACGGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCAGACAGTTGAG 1041

981 GAAGACCGTCTTATTCGAATGAATCAAGCAGAGACTGACTTTAACTCAAAATTTGTGAA 1040

1042 CTGGGTCCTGCGTTGGGATGGTGACATTTGACAGTGTGCCCCATGTACAAGTGAATCTC 1101

1041 AAGAGTCTATGTTGGATTAGTTCACATTTTGACAGCGTGGCCACATCCAAAATTTATCTA 1100

1102 ATACAGATAAACAGTGGCAGTGCAGGGACACACTCGCCAAAGATTACTCTCAGCAGCT 1161

1101 ATAAAAATAACGAGTAGTAGTACTACCAAAAAGATCACCGCAAACTCCCCCAACAGGCT 1160

1162 TCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATGGCATTTTACTGTGATTA---GGAAG 1218

1161 TCTGGTGGAACTTCAAATTTGCCATGGACTCCAGGAGGATTTACAGCAATTACCTCCAGT 1220

1219 AAATATCCAATGATGGATCTGAAATTTGTGCTGCTCAACCGATGGGGAAGACAACTATA 1278

1221 GACCAGAGCACTTCGGTTCTGAGATCGTATTGCTGCAGATGGGGAAGATATGGAATA 1280

1279 AGTGGGTCTTTAAGAGAGGTCAAAACAAGTGGTGCCATCATCCACACAGTCGCTTTGGGG 1338

1281 GGTTCCTGTTTGAAGCGGCTCTCTCGAGCGGTGGCCATCATCCACACCATCGCTCTGGGG 1340

Db	2134	CGCTAGGCTAAATTTAAGACAACACAGAAAGTTCTATATGTTCCAGGCTACGTTG	2193
Qy	2132	AGAATGATGAATACAAATCGAATCCACAGACCTGAAATTAATTAAGGATGATGTTCAAC	2191
Db	2194	AAAACGGTAAATTAATCTGAAACCCACCCAGAGCTGAAAGTCAAGATGACCTGGCAAAAG	2253
Qy	2192	ACAAGCAAGTGTTTTCAGCAGAAACATCTCCGGAGGCTCATTTGTGGGTTCTGATGCC	2251
Db	2254	CTAAATAGAAAGACTTTAGCGAGCTAACTCTGGAGGTCATTTACTGTATCAGGAGCTC	2313
Qy	2252	CAAAATGCTCCCA---TACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGCGG	2308
Db	2314	CTCCTCTGCTAATCACCCCTCTGTGTTCCACCCAGTAAATTAACAGATCTTGAGGCTA	2373
Qy	2309	AAATTCAGGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGAGTATTATGACC	2368
Db	2374	AGTTCAAGAAG--ATTATATTCACTTTTCATGGACAGCCCTGGCAATGTCCTAGATA	2430
Qy	2369	ATGGAACAGCTCACAAAGTATATCATTCGAATAAGTACAAAGTATTTTGATCTCAGAGACA	2428
Db	2431	AAGAAAGCCCAACAGCTACATTAATAGATTAAGTAAAGTATTCATGGATCGTCAAGAAG	2490
Qy	2429	AGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAAGGAAGCAACTCTG	2488
Db	2491	ATTTTGACAATGCGACTTTAGTGAATACTTCTAATCTAATACCTAAGGAGCCGGATCAA	2550
Qy	2489	AGGAAGCTTTTGTGTTAAACACAGAAACATTACTTTTGAAAATGGCACAGATCTTTTCA	2548
Db	2551	AAGAAATTTTGAATTTAAGCCAGAACATTTTAGATGAGAAATTTGGCACCAAAATCTATA	2610
Qy	2549	TTCGATTCAGGCTGTTTGATTAAGTTCGATCTGAAATCAGAAATATCAAAATTCGACGAG	2608
Db	2611	TTTCAGTCCAGCCATCAACAGGCCAATCTCATCTCAGAGGTTTCTCATATGTATCAAG	2670
Qy	2609	TATCTTTGTTTATTCCTCCAC	2629
Db	2671	CAATCAAAATTTATTCCTCTAC	2691
RESULT 12			
US-09-193-562D-33			
; Sequence 33, Application US/09193562D			
; Patent No. 6309857			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
; FILE REFERENCE: 18617.0052			
; CURRENT APPLICATION NUMBER: US/09/193,562D			
; CURRENT FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065,922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 33			
; LENGTH: 3022			
; TYPE: DNA			
; ORGANISM: Mus musculus			
US-09-193-562D-33			
Query Match 29.9%; Score 840.6; DB 3; Length 3022;			
Best Local Similarity 60.5%; Pred. No. 3.5e-245;			
Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9			
Qy	91	TCACTCATTCAGCTGAACAAATGCTATGAAGCATTTGCTGTTGCAATCCAGCCCAAT	150
Db	81	TCCATGGTGCATCTCAACAGCAATGGATCGGGGTGGTCTATTGCCATTAAACCCAGT	140
Qy	151	GTGCCAAGATGAACACACTTATTCACAAATAAAGCATGGTGACCCAGCATCTCTG	210
Db	141	GTGCGAGGACGAAAGGCTCATCCCAAGCATAAAGGAATGGTAATCAAGCTTCTACC	200
Qy	211	TATCTGTTGAAGCTACAGGAAGCGATTTTATTTTCAAAATGTTGCCATTTGATCTCT	270





501	TGGGGAGTATTTGATGAGTATAACGTCGGACCGGTCACTTTACATTTCTAGAAAGACACT	560
568	ATACAGAGTATGATGTTTACGAGGATTTACTCGGTACAAATGTAGTAAAGAGTGTCTAG	627
561	ATAGAGCAACAGAGGTCTCCGCGAGCATACAGGACGAGAGGTGGTCCAGGAGTCTAG	620
628	GGAGGAGCTGTACACCAAAAGATGCATTTCAATTAAGTAAACAGGACTCTATGAATA	687
621	AGAGGAGCTGTGACAGAGGCGTCCGCGGTGACTCGAAGACAGCGCTGTATGAACCC	680
688	GGATGTGATTTGTTTCTCCAAATCCCGCAGAGGAGAGGCTTCTATATATTTTGCACAA	747
681	AAATGTACATTTATCCAGACAAATATACAGACAGCTGGGGCTTCCATATGTTCTATGAA	740
748	CAATGTGATTTATGATTTCTGTACAGAAACAAACCAACAAAGAGAGCTCCAAAC	807
741	AACTCAATTTCTGTGTTGAAATTTTGACAGAAATTAACCAATGCGAAGACCCCAAC	800
808	AAGCAAAATCAAAATGCAATCTCCGAAGCAGATGGGAAGTATCGGTGATTTCTGAGGAC	867
801	CTACAAACAAATGTGCAATCGCAGAGCAGCTGGGATGTAATCAAGACGCTCTGTGAC	860
868	TTTAAAGAAACCACTCTCTATG-----ACACAGCCACCAATCCCACTTCTCATTTG	921
861	TTTCAAGATGCCCCCTCCATGAGAGAAACAGAGACCCCTCTCCACCTACATTTTATCTG	920
922	CTGCAGATTGGACAAAGAAATTTGTGTTAGTCTCTACAAATCTGGAAGCATGGGAGCT	981
921	CTCAAGTCCAGAGGCGAGTGTGTCTGTTGATGATTAATCTGGAAGCATGGACAA	980
982	GGTAAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCAGACAGTTGAG	1041
981	GAAGACCGTCTTATTCGAATGAATCAAGCAGCAGACTGTACTTAACTCAAAATGTGGAA	1040
1042	CTGGGGTCTGGTGGGATGGTGACATTTGACAGTGTGCCATGTACAAAGTGAATCTC	1101
1041	AAGGAGCTATGTTGGATTTAGTACATTTGACAGCGCTGCCCATCCCAATTTATCTTA	1100
1102	ATACAGATTAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTAACCTGCGAGCAGCT	1161
1101	ATAAAATAACGAGTAGTAGTGACTTACCAAAAGATCACCGCAACCTCCCCACAGGCT	1160
1162	TCAGAGGAGCTCCATCTGACGCGGCTTCGATCGGCATTTACTGTGATTA-----GGAG	1218
1161	TCGTGTGAACTTCAATTTGCCATGACATCCAGGAGGATTTACGGCAATTAACCTCCAGT	1220
1219	AAATATCCAACATGATGATCTGAAATTTGTCTGCTGACGATGGGGAGACAACTATA	1278
1221	GACAGAGCAGCTTCCGGTCTCGAGATCGTATTTGCTGACAGATGGGGAGATTAATGGAATA	1280
1279	AGTGGGTGCTTTAAACAGAGTCAAAAGAGTGTGCCATCATCCACAGCTCGCTTTGGGG	1338
1281	CGTTCCTGCTTTGAGCGCGTCTCTCGAGCGGTGCCATCATCCACACCATCGCTCTGGGG	1340
1339	CCCTCTGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATAT	1398
1341	CCTTTCGCTGCCGAGAACTGGAGACTCTGTCCGACATGACAGAGGCTTCGTTTCTAT	1400
1399	GCCTTCAGATCAAGTTTCAGAAATATGGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA	1458
1401	GCACAAAGACCT-----AAACAGCTTATCGATGCTTTTCTAGTAGAATTTTCATCTACA	1454
1459	AATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAGGATTAACCTCCAGAAC	1518
1455	AGTGGAGCGTCTCCAGCAGGCTCTGCGAGTTGGAGCAAGCCCTTCGATGTCAGAGCA	1514
1519	AGCCAGTGGATGAATGGCAGAGTGTATCGTGACAGCAGCGGTGGGAAAGAGCACTTTGTTT	1578
1515	GGGCGATGGATAAAGCGGTACAGTACCTCTGGACAGTACCGTCCGACAGCACACGCTCTTT	1574
1579	CTTATCACTCGACAAACGAGCCTCCCAAAATCTCTCTCGGATCCCGAGTGGACAGAG	1638
1575	GTATATCACTGGATGGTAAAGAGCGCAGAAATCATTTCTTCAAGATCCAAAGGAAAAA	1634

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; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29
; LENGTH: 3418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-193-562D-29

Query Match      29.6%; Score 832.6; DB 3; Length 3418;
Best Local Similarity 59.9%; Pred. No. 1e-242;
Matches 1603; Conservative 0; Mismatches 979; Indels 93; Gaps 9;

Qy      46 GTGTTCATCTTGATTCCTCACCTTCCTAGAGGGGCCCTGAGTAATTCATCTATTCCAGCTG 105
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      37 GTGATTCCTCTCTATCCCTGTCTCTCGCTGTATTCGAAAGCTCACTGGTAACTTGG 96
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      106 AACAACAATGGCTATGAAGGCATTGTCGTTGCAATCGACCCCAATGCGCAAGATGAA 165
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      97 AATAACAATGGATATGATGGCAATTGGATTGCAATTAATCCCGAGTACCAGAAAGATGAA 156
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      166 ACATCTATTCAACAATAAAGGACATGTGTGACCCAGGCATCTCTGTATCTGTTTGAAGCT 225
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      157 AAATCTATTCAAAAACATAAAGCAATGTGTACTGAGCACTACTCTACCTGTTTCATGCC 216
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      226 ACAGGAAAGCGATTATTATTTCAAAAATGTGCGAATTTTGAATTCCTGAAAACATGGAAGCA 285
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      217 ACAAAACAAGAGCTTATTTTCAGGAATGTAAGCACTTTTAATTCCAATGACCTACAATCA 276
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      286 AAGGCTGCAATGTGAGACCAAACTTGAGACCTACAAAATGCTGAATGTTCTGGTTGCT 345
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      277 AAATCTGAGTACTTAATCCCAAAACAGAAAACATATGACGAGCAGATGTCATAGTTGCT 336
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      346 GAGTCTACTCTCTCCAGGTAATGATGAACCCCTACACTGAGCAGATGGGCACTGTGGAGAG 405
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      337 GATCTTTACTGAAATACGGAGATGATCCCTATACACTTCATATGGCAATGTGGAGAT 396
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      406 AAGGCTGAAGGATCCACCTCACTCTCTGATTTTCATTGACGAAAAAAGTTAGCTGAATAT 465
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      397 AAAGCAACAATATATACATTTTACTCCAAACTTCTTGTTGACTAATAAATTTGGCTACCTAT 456
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      466 GGACCAACAAGGTAGGCGCATTTGTCATGAGTGGGCTCTCTACGATGGGAGTATTTCAC 525
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      457 GGGCTCGAGGTAAAGTATTTGTCATGGGTGGGCCCATCTCCGGTGGGAGTATTTCAT 516
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      526 GAGTACAATATGATGAAAAATTCATCTATCCAAATGGA--AGAAATACAAGCAGTAA 582
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      643 ACCAAAGATGTCACATTCATTAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTGTT 702
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      637 GCAGGCACTTCAGCGTGACTCACAGACAGGGCTGTATGAAGCAAAATGTACATTATC 696
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy      703 CTCCAATCCCGCAGACGGAGAGGCTTCTATAATGTTTGCACACATGTTGATTCATATA 762
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RESULT 15  
US-10-055-412B-29  
; Sequence 29, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17

```

RESULT 15
US-10-055-412B-29
; Sequence 29, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 29

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QY	1060	ATGGTGACATTTTGAAGAGTGTGCCCATGTACAAAGTGAACATCATACAGATAAAACAGTGGC	1119
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QY	1120	AGTGACAGGGACACACTCGCCCAAAGATTACTCTGCAGCAGCTTCAGAGGGAGCGTCCATC	1179
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QY	1180	TGCAGGGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAAATATC---CAACTGATGA	1236
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QY	1357	CTAGAGGAGCTGTCCAAATGACAGGAGTTTACAGACATA-----	1397
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QY	1543	ATCGTGACAGCACCGTGGGAAGGACATTTGTTTCTTATCACCTGGACACGAGCCT	1602
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QY	1714	TGSAATAACAGTCTGCAA-----GCAAGCTCACAAACCTTGACCCCTGACTGTCAAG	1764
DB	1777	TGGACTTACAGCGTTTGGAAACAAATCATACCAATCTCAATTTGCTAATGTGCATAATGACC	1836
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DB	1957	GTTCTGGGAATCAATGTAAACGCCATTAAGAAATGAAGAGGACATCAAGTAACATTG	2016
QY	1945	GAACTACTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGS	2004
DB	2017	GAGCTCTGCGCAATGGCGCAGGTGCTGATTTCTCTCAAGAAATGATGTCATCTACTCAAGS	2076
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Search completed: October 18, 2004, 15:03:21  
Job time : 168.466 secs

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Db	71	CTTCACCTTCTAGAAGGGCCCTGAGTAATCTACTATTCAGCTGAACAAACAATGGGTAT	130						



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## RESULT 2

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Coxley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 2812; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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2770 ATAGCCTAGGCTGAAATTTTGTGATGATAAATAAATAAATAAATTAATCATTCATCTT 2821

RESULT 3  
US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 2812; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 70 CTTACCTTCTAGAAAGGGGCTGAGTAATCACTCACTTTCAGCTGAACAAACAATGGCTAT 129  
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Db 130 GAAGGCAATGTGCTGTTGCAATCGACCCCAATGTGCGAGAAGATGAACACACTCAATCAACAA 189  
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RESULT 4
US-10-235-994-25
; Sequence 25, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 3111
; TYPE: DNA
; ORGANISM: Human
US-10-235-994-25

Query Match 100.0%; Score 2812; DB 15; Length 3111;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1150 AAAAGATTACTGTCAGCAGCTTTCAGGAGGAGCGTCCATCTTCGACGGGGCTTCGATCGGCA 1209
QY 1201 TTTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTGCTGCTCAGCAT 1260
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Db 1210 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGCTGACGGAT 1269  
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Db 1270 GGGGAAGCAACACTATAAGTGGTGTCTTTAAAGAGGTCAACAAAGAGTGGCCATCATC 1329  
QY 1321 CACACAGTCCGCTTTGGGGCCCTCTGCGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACA 1380  
Db 1330 CACACAGTCCGCTTTGGGGCCCTCTGCGAGCTCAAGAACTAGAGGAGCTGTCCAAATGACA 1389  
QY 1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATAGCCCTCATTTGATGCTTTT 1440  
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QY 1861 AATATTCGCAAGGAGCTCCCAATCTCAGGCGAGTGTACAGCCCTGATTAATCA 1920  
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Db 1990 AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACAGCAATGGTAGATACAGT 2049  
QY 2041 GTAAAAGTCGGGCTCTGGAGGAGTTAAAGCGGAGGAGTGTATCCCGAGGAG 2100  
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QY 2101 AGTGGAGCACTGTATACCTTGGCTGGATTCAGATGATGAATGAAATGGAATCCACCA 2160  
Db 2110 AGTGGAGCACTGTATACCTTGGCTGGATTCAGATGATGAATGAAATGGAATCCACCA 2169  
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Db 2230 TCGGGAGGCTCATTTTGGCTTCTGATGTCCCAATGCTCCCAATGCTCTTCCCA 2289  
QY 2281 CCTGGCCAAATCAGGACCTGAGGCGGAATTCACGGGGGAGTCTCTCATTAATCTGACT 2340  
Db 2290 CCTGGCCAAATCAGGACCTGAGGCGGAATTCACGGGGGAGTCTCTCATTAATCTGACT 2349

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QY 2761 ATAGCCTAGGCTGAATTTTGTTCAGATAAATAAATAAATCATTCATCTT 2812  
Db 2770 ATAGCCTAGGCTGAATTTTGTTCAGATAAATAAATAAATCATTCATCTT 2821

## RESULT 5

US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 2812; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2812; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAAATCACAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCGTGTTCACTTGAAT 60  
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QY 61 CTTACCTTCTAGAAGGGCCCTGAGTAATTCATCTCAGCTGAAACAAATGGCTAT 120  
Db 71 CTTACCTTCTAGAAGGGCCCTGAGTAATTCATCTCAGCTGAAACAAATGGCTAT 130  
QY 121 GAAGGATTCCTTGTGAATCGACCCCAATGTCCAGAGATGAAACACTTCATTCACAA 180  
Db 131 GAAGGATTCCTTGTGAATCGACCCCAATGTCCAGAGATGAAACACTTCATTCACAA 190  
QY 181 ATAAGGACATGTGACCCAGGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTT 240  
Db 191 ATAAGGACATGTGACCCAGGATCTCTGTATCTGTTGAAGCTACAGAAAGCGATTT 250



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251 Db TATTTCAAAAATGTTGGCAATTTGATTCCTGAAACATGGAAGACAAAGGCTGACTATGTG 310  
301 QY AGACAAAACCTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 360  
311 Db AGACAAAACCTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 370  
361 QY GGTAAATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAGGGGTGAAGATC 420  
371 Db GGTAAATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAGGGGTGAAGATC 430  
421 QY CACCTCACTCCTGATTTTCAATCCAGGAAAAAAGTTAGTGAATATGGACCACAAAGTAGG 480  
431 Db CACCTCACTCCTGATTTTCAATCCAGGAAAAAAGTTAGTGAATATGGACCACAAAGTAGG 490  
481 QY GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540  
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541 QY GAGAAATCTCTATCTTATCCAAATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTATTACT 600  
551 Db GAGAAATCTCTATCTTATCCAAATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTATTACT 610  
601 QY GGTACAAATGTAGTAAAGATGTCTAGGAGGAGCTGTTACACAAAAGATGCACATTC 660  
611 Db GGTACAAATGTAGTAAAGATGTCTAGGAGGAGCTGTTACACAAAAGATGCACATTC 670  
661 QY AATAAGTAAACAGGACTCTATGAAAGAGATGTGTTGTTCTTCCAAATCCCGCCAGAG 720  
671 Db AATAAGTAAACAGGACTCTATGAAAGAGATGTGTTGTTCTTCCAAATCCCGCCAGAG 730  
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851 Db TGGGAAGTATCGGTGATCTGAGGACTTTAAGAAAACCACTCTATGACAAACACAGCCA 910  
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911 Db CCAATCCCACTTCTCATCTGCTGAGATTGGAACAAAGAAATGTTGTTAGTCTCTTGAC 970  
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971 Db AAATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAATCAAGAGGCGAGCTT 1030  
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1081 QY GCCCATGTACAAAGTGAATCTATACAGATAACAGTGGCAGTGAAGGAGACACATCGCC 1140  
1091 Db GCCCATGTACAAAGTGAATCTATACAGATAACAGTGGCAGTGAAGGAGACACATCGCC 1150  
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1271 Db GGGGAAGACAACTATATAGTGGGCTTTTACAGAGGTCAACAAAGTGGTCCCATCATC 1330  
1321 QY CACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACA 1380

1331 Db CACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAATGACA 1390  
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1511 Db GGATTAACCTTCAGAAACAGCCAGTGGATGAATGSCACAGTATCGTGGACAGCCGTCG 1570  
1561 QY GGAAGAGACACTTCTTCTTATCACCTTGGACAGCGAGCTTCCCAAAATCTTCTCTCG 1620  
1571 Db GGAAGAGACACTTCTTCTTATCACCTTGGACAGCGAGCTTCCCAAAATCTTCTCTCG 1630  
1621 QY GATCCAGTGGACAGAGCAAGTGGCTTTGTTGTTGAGTGGACAAAACACAAAATGGCTTAC 1680  
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1681 QY CTCCAAATCCCAAGGATTTGCTAAGTTGSCACTTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
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1741 QY CAAACCTTCAGCCCTGACTGTACGCTCCGCTGCTTCCAAATGCTTACCTGCTCCCAATTACA 1800  
1751 Db CAAACCTTCAGCCCTGACTGTACGCTCCGCTGCTTCCAAATGCTTACCTGCTCCCAATTACA 1810  
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1811 Db GTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCAAGCCCTCTGGTAGTTTATGCA 1870  
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1981 QY AAGGATGACGGTGTCTACTCAAGTATTTCAAACTTATGACAGAAATGGTAGATACAGT 2040  
1991 Db AAGGATGACGGTGTCTACTCAAGTATTTCAAACTTATGACAGAAATGGTAGATACAGT 2050  
2041 QY GTAAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCCAGACGAGAGTATACCCAGCAG 2100  
2051 Db GTAAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCCAGACGAGAGTATACCCAGCAG 2110  
2101 QY AGTGGAGCACTGTATACATACCTTGGGATTTGAGAAATGATGAATGAAATGGAATCCACCA 2160  
2111 Db AGTGGAGCACTGTATACATACCTTGGGATTTGAGAAATGATGAATGAAATGGAATCCACCA 2170  
2161 QY AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC 2220  
2171 Db AGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTTCAGCAGAACATCC 2230  
2221 QY TCGGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATACCTGATCTCTCCCA 2280  
2231 Db TCGGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATACCTGATCTCTCCCA 2290  
2281 QY CTTGCCAAAATCACCGACTTGAAGCGGAAATTCAGCGGGCAGTCTCATTAATCTGACT 2340  
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2341 QY TGGACAGTCTCTGGGGATGATTAATGACATGGAACAGTCTCACAATATATCATTCGAATA 2400  
2351 Db TGGACAGTCTCTGGGGATGATTAATGACATGGAACAGTCTCACAATATATCATTCGAATA 2410  
2401 QY AGTACAGTATTTCTTGATCTCAGAGCAAGTTCATTAATGATCTCTTCAAGTGAATACTACT 2460







QY 241 TATTTCAAAATGTTGCCATTTTGATTCCTGAACATGGAAGACAAAGGCTGACTATGTG 300  
Db 568 TATTTCAAAATGTTGCCATTTTGATTCCTGAACATGGAAGACAAAGGCTGACTATGTG 627  
QY 301 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTGTGCTGATCTACTCTCCCA 360  
Db 628 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGGTGTGCTGATCTACTCTCCCA 687  
QY 361 GGTAATGATGAACCTCACACTGAGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATC 420  
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QY 841 TGGGAAGTATCCGATGTTCTGAGACCTTTAAGAAAACCACTCTATGACAAACAGCCA 900  
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Db 1948 GATCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGAACAAAACACCAAAATGGCTTAC 2007  
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Db 2128 GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATTTCCCGAGCCCTCTGGTAGTTATGCA 2187  
QY 1861 AATATTTCCAGAGGAGCTCCCAATTTCTAGGAGGAGTGTCAAGCCCTGATGATCTACT 1920  
Db 2188 AATATTTCCAGAGGAGCTCCCAATTTCTAGGAGGAGTGTCAAGCCCTGATGATCTACT 1980  
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Db 2668 TGAACAGCTCCTGGGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2727  
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Db	2728	AGTAAAGTATTTCTGATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATACTACT	2787	Qy	301	AGACAAAACCTTGAGACCTACAAAATCTGCTGATCTTCTGGTTGCTGAGTCTACTCTCTCA	360
Qy	2461	GCTCTATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAAACATT	2520	Db	628	AGACAAAACCTTGAGACCTACAAAATCTGCTGATCTTCTGGTTGCTGAGTCTACTCTCTCA	687
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Qy	2521	ACTTTGAAATGGCAGAGATCTTTTCTGCTATTCAGGCTGTGATGAAGTGCATCTG	2580	Db	688	GTTAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGAGAGAGAGGTGAAGATC	747
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Qy	2581	AAATCAGAAATATCAACATTCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA	2640	Db	748	CACCTCACTCTGATTTTCACTTGAGGAAAAAGTTAGCTGAATATGGAACCAAGGTAGG	807
Db	2908	AAATCAGAAATATCAACATTCACGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCA	2967	Qy	481	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTCAATAATGAT	540
Qy	2641	GAGACACCTAGTCTGTGATGAACGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2700	Db	808	GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTCAATAATGAT	867
Db	2968	GAGACACCTAGTCTGTGATGAACGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT	3027	Qy	541	CAGAAAATCTACTTATCCATGGAAGATACAGCAGTAAGATGTTTACGAGGTATTACT	600
Qy	2701	ATTCCTGGGATTCACATTTTAAATTTATGGAAGTGGATAGGAGAACTGCAGCTGCA	2760	Db	868	CAGAAAATCTACTTATCCATGGAAGATACAGCAGTAAGATGTTTACGAGGTATTACT	927
Db	3028	ATTCCTGGGATTCACATTTTAAATTTATGGAAGTGGATAGGAGAACTGCAGCTGCA	3087	Qy	601	GGTACAAATGTAGTAAAGAGTGTCCAGGAGGAGCTGTTACCCAAAAGATGCACATTC	660
Qy	2761	ATAGCTAGGCTGAATTTTCTCAGATAAATAAATAAATAAATAAATAAATAAATAAATA	2812	Db	928	GGTACAAATGTAGTAAAGAGTGTCCAGGAGGAGCTGTTACCCAAAAGATGCACATTC	987
Db	3088	ATAGCTAGGCTGAATTTTCTCAGATAAATAAATAAATAAATAAATAAATAAATAAATA	3139	Qy	661	AATAAGTAAACAGGACTCTATCAAAAAGGATGTGATTTGTTTCTCCAAATCCGCCAGAG	720
RESULT 8							
US-09-833-263-1056							
; Sequence 1056, Application US/09833263							
; Patent No. US20020110547A1							
; GENERAL INFORMATION:							
; APPLICANT: Wang, Aijun							
; APPLICANT: Clapper, Jonathan D.							
; APPLICANT: Stolk, John A.							
; APPLICANT: Meagher, Madeleine J.							
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND							
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE							
; FILE REFERENCE: 210121.471C12							
; CURRENT APPLICATION NUMBER: US/09/833,263							
; CURRENT FILING DATE: 2001-04-10							
; NUMBER OF SEQ ID NOS: 1093							
; SOFTWARE: FastSeq for Windows Version 3.0							
; SEQ ID NO 1056							
; LENGTH: 3311							
; TYPE: DNA							
; ORGANISM: Homo sapiens							
US-09-833-263-1056							
Query Match 99.8%; Score 2807.2; DB 9; Length 3311;							
Best Local Similarity 99.9%; Pred. No. 0;							
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;							
Qy	1	GAAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGATT	60	Db	1168	TGGGAAGTGTATCCGTGATTCTGAGGACTTTAAAGAAACCACTCTATGACACACAGCCA	1227
Db	328	GGAATCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGATT	387	Qy	901	CCAAATCCCACTTCTCATGCTGAGATTTGACAGAAAGATTTGTGTTTGTAGTCTTGAC	960
Qy	61	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACAATGGCTAT	120	Db	1228	CCAAATCCCACTTCTCATGCTGAGATTTGACAGAAAGATTTGTGTTTGTAGTCTTGAC	1287
Db	388	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCATCTCATTGAGTGAACAACAATGGCTAT	447	Qy	961	AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020
Qy	121	GAAGGATTTGCTGTTGCAATCGACCCCAATGTGCGAGAGATGAACACTTCATTCAACA	180	Db	1288	AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1347
Db	448	GAAGGATTTGCTGTTGCAATCGACCCCAATGTGCGAGAGATGAACACTTCATTCAACA	507	Qy	1021	TTCTCTGCTGACAGACAGTTGAGTGGGCTCTGGGTTGGGATGGTGAATTTGACAGTGCT	1080
Qy	181	ATAAGGACATGTGACCCAGGATCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTT	240	Db	1348	TTCTCTGCTGACAGACAGTTGAGTGGGCTCTGGGTTGGGATGGTGAATTTGACAGTGCT	1407
Db	508	ATAAGGACATGTGACCCAGGATCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTT	567	Qy	1081	GCCCATGTACAAAGTGAATCTACAGATTAACAGTGGGAGTCAAGGGGACACACTCGCC	1140
Qy	241	TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	300	Db	1408	GCCCATGTACAAAGTGAATCTACAGATTAACAGTGGGAGTCAAGGGGACACACTCGCC	1467
Db	568	TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG	627	Qy	1141	AAAAGATTACTCTCAGCAGCTTCAGGAGGACCTCCATCTGCGAGCGGGCTTCGATCGGCA	1200



QY	181	ATAAGGACATGATGACACCGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGGATTT	240	Db	1588	GGGGAAGACAACTATAAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGGTGCCATCATC	1647
Db	508	ATAAGGACATGATGACACCGCATCTCTGTATCTGTTTGAAGCTACAGGAAAGGATTT	567	QY	1321	CACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAGAGGAGCTCTCCAAAATGACA	1380
QY	241	TATTTCAAAAATGTTGCCATTTGATCTCTGAACATGGAAGCAAAAGGCTGACTATGTG	300	Db	1648	CACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGAACTAGAGGAGCTCTCCAAAATGACA	1707
Db	568	TATTTCAAAAATGTTGCCATTTGATCTCTGAACATGGAAGCAAAAGGCTGACTATGTG	627	QY	1381	GGAGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACAATGGCCTCATTTGATGCTTTT	1440
QY	301	AGACCAAACTTTGAGACCTTACAAAATGCTGATGTTCTGGTTCGTGAGTCTACTCTCCA	360	Db	1708	GGAGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACAATGGCCTCATTTGATGCTTTT	1767
Db	628	AGACCAAACTTTGAGACCTTACAAAATGCTGATGTTCTGGTTCGTGAGTCTACTCTCCA	687	QY	1441	GGGGCCCTTTTATCAGGAAATGGAGCTCTCTCAGCGCTCATCCAGCTTCAGAGTAAG	1500
QY	361	GCTATGATGAACCCCTACACTGAGCAGATGGGCAACTCTGTGGAGAGAGGTTGAAGGATC	420	Db	1768	GGGGCCCTTTTATCAGGAAATGGAGCTCTCTCAGCGCTCATCCAGCTTCAGAGTAAG	1827
Db	688	GCTATGATGAACCCCTACACTGAGCAGATGGGCAACTCTGTGGAGAGAGGTTGAAGGATC	747	QY	1501	GGATTAACCTCTCAGAACAGCAGCTGGATGAATGACAGTATCGTGGACAGACCCGTG	1560
QY	421	CACCTCACTCTGATTTTCAATTCAGGAAAGGTTAGCTGATATGGAACCAAGTAGG	480	Db	1828	GGATTAACCTCTCAGAACAGCAGCTGGATGAATGACAGTATCGTGGACAGACCCGTG	1887
Db	748	CACCTCACTCTGATTTTCAATTCAGGAAAGGTTAGCTGATATGGAACCAAGTAGG	807	QY	1561	GGAAAGGACACTTTGTTTCTTATCACCTGGACAACGCGAGCTCTCCAAAATCCTTCTGG	1620
QY	481	GCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	540	Db	1888	GGAAAGGACACTTTGTTTCTTATCACCTGGACAACGCGAGCTCTCCAAAATCCTTCTGG	1947
Db	808	GCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT	867	QY	1621	GATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTAC	1680
QY	541	GAGAAATTTCTATTTCAATGGAAGATACAGCAGTAAAGTATTTGACGAGTATTAAT	600	Db	1948	GATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTAC	2007
Db	868	GAGAAATTTCTATTTCAATGGAAGATACAGCAGTAAAGTATTTGACGAGTATTAAT	927	QY	1681	CTCCAAAATCCAGGACATTTGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
QY	601	GGTACAAATGATTAAGAGTCTCAGGAGGAGCTGTTTACACAAAAGATGCACATTC	660	Db	2008	CTCCAAAATCCAGGACATTTGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	2067
Db	928	GGTACAAATGATTAAGAGTCTCAGGAGGAGCTGTTTACACAAAAGATGCACATTC	987	QY	1741	CAAACTTCACCTGACTGCTCAGCTCCGCTGGCTCCAATGCTACCTGCTCCAAATACA	1800
QY	661	AATAAGTAAACGAGTCTATGAAAAAGGATGTGAGTGTGTTCTCCAATCCGCCAGAG	720	Db	2068	CAAACTTCACCTGACTGCTCAGCTCCGCTGGCTCCAATGCTACCTGCTCCAAATACA	2127
Db	988	AATAAGTAAACGAGTCTATGAAAAAGGATGTGAGTGTGTTCTCCAATCCGCCAGAG	1047	QY	1801	GTGACTTCCAAAACAGAACAGACACAGCAAAATTCGCCAGCCCTCTGGTAGTTATGCA	1860
QY	721	GAGAAGCTTCTATAATGTTTGCACAACTATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	1107	Db	2128	GTGACTTCCAAAACAGAACAGACACAGCAAAATTCGCCAGCCCTCTGGTAGTTATGCA	2187
Db	1048	GAGAAGCTTCTATAATGTTTGCACAACTATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	1167	QY	1861	ATAATTTGCCAGAGGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA	1920
QY	781	CAAAAACCAAAAGAGTCTCAAAACAGCAAAATCAAAATGCAATCTCCGAGCACA	840	Db	2188	ATAATTTGCCAGAGGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA	2247
Db	1108	CAAAAACCAAAAGAGTCTCAAAACAGCAAAATCAAAATGCAATCTCCGAGCACA	1167	QY	1921	GTCAATTTGGAAAAACAGTTACTTGGAACTACTGGATAATGGAGCAGGTGTGATGTACT	1980
QY	841	TGGAGAGTATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCCTATGACAAACAGCCA	900	Db	2248	GTCAATTTGGAAAAACAGTTACTTGGAACTACTGGATAATGGAGCAGGTGTGATGTACT	2307
Db	1168	TGGAGAGTATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCCTATGACAAACAGCCA	1227	QY	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACAGGATGGTAGATCAGT	2040
QY	901	CCAAATCCCACTTCTCATTTGCTGCAATTTGGACAAAGAAATTTGTTAGTCTTTGAC	960	Db	2308	AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACAGGATGGTAGATCAGT	2367
Db	1228	CCAAATCCCACTTCTCATTTGCTGCAATTTGGACAAAGAAATTTGTTAGTCTTTGAC	1287	QY	2041	GTAAAGTGGGGCTCTGGGAGGAGTTTAAACGAGCCAGACGAGAGTATACCCAGCAG	2100
QY	961	AAATCTGGAAGCATGGGAGTGTAAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1020	Db	2368	GTAAAGTGGGGCTCTGGGAGGAGTTTAAACGAGCCAGACGAGAGTATACCCAGCAG	2427
Db	1288	AAATCTGGAAGCATGGGAGTGTAAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1347	QY	2101	AGTGGAGCATGTACATACCTCTGGCTGGATTCAGAAATGATGAATGGAATTCACCA	2160
QY	1021	TTCTGCTGACAGACAGTTGAGTGGGGTCTGGGTTGGGTTGGATGGTGAATTTGAAGTGT	1080	Db	2428	AGTGGAGCATGTACATACCTCTGGCTGGATTCAGAAATGATGAATGGAATTCACCA	2487
Db	1348	TTCTGCTGACAGACAGTTGAGTGGGGTCTGGGTTGGGTTGGATGGTGAATTTGAAGTGT	1407	QY	2161	AGACCTGAAATTAATAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC	2220
QY	1081	GCCCATGTACAAAGTGAATCATACAGATAAACAGTGGCAGTGCAGGACACACTCGCC	1140	Db	2488	AGACCTGAAATTAATAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAAATCC	2547
Db	1408	GCCCATGTACAAAGTGAATCATACAGATAAACAGTGGCAGTGCAGGACACACTCGCC	1467	QY	2221	TCGGAGGCTCATTTGGCTTCTGATGTCCAAATGCTCCATACCTGATCTCTTCCCA	2280
QY	1141	AAAAGATTTACCTGACAGAGTTCAGAGGAGCTCCATCTCGACGGGCTTCGATCGGCA	1200	Db	2548	TCGGAGGCTCATTTGGCTTCTGATGTCCAAATGCTCCATACCTGATCTCTTCCCA	2607
Db	1468	AAAAGATTTACCTGACAGAGTTCAGAGGAGCTCCATCTCGACGGGCTTCGATCGGCA	1527	QY	2281	CCTGGCAAAATCACCGACCTGAAGCGGAAATTCAGGGGGAGTCTCATTAATCTGACT	2340
QY	1201	TTTACTGTGATTTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTCTGTCAGCGAT	1260	Db	2608	CCTGGCAAAATCACCGACCTGAAGCGGAAATTCAGGGGGAGTCTCATTAATCTGACT	2667
Db	1528	TTTACTGTGATTTAGGAAGAAATATCCAACTGATGATCTGAAATTTGTCTGTCAGCGAT	1587	QY	2341	TGGACAGCTCTGGGATGATTTATGACCATGGACAGCTCAAGTATATCTATCTTGAATA	2400
QY	1261	GGGGAAGACAACTATAAGTGGGTCTTTACGAGGTCMAACAAAGTGGTGCCATCATC	1320				



Db 2668 TGCACAGCTCTGGGAGTATATGACCATGGAACAGCTCAACAGTATATCATTCGAATA 2727  
QY 2401 AGTACAAGTATCTTGTATCTCAGACACAAAGTTCAATGAATCTCTCAAGTGNATCTACT 2460  
Db 2728 AGTACAAGTATCTTGTATCTCAGACACAAAGTTCAATGAATCTCTCAAGTGNATCTACT 2787  
QY 2461 GCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTTGTTPAAACCCAGAAAACATT 2520  
Db 2788 GCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTTGTTPAAACCCAGAAAACATT 2847  
QY 2521 ACTTTTGAATGGCAGAGATCTTTTCAATGCTATTAGGCTGTGTGATGAAGTGCATCTG 2580  
Db 2848 ACTTTTGAATGGCAGAGATCTTTTCAATGCTATTAGGCTGTGTGATGAAGTGCATCTG 2907  
QY 2581 AAATCAGAAATATCCAACTTGCACGAGTATCTTTTGTTPAAACCCAGAAAACATT 2640  
Db 2908 AAATCAGAAATATCCAACTTGCACGAGTATCTTTTGTTPAAACCCAGAAAACATT 2667  
QY 2641 GAGACACTAGTCTGATGAACGCTGCTCTTGTCTCTTAATATCATATCAACAGCAC 2700  
Db 2968 GAGACACTAGTCTGATGAACGCTGCTCTTGTCTCTTAATATCATATCAACAGCAC 3027  
QY 2701 ATTCTGCGCATTCACATTTTAAATAATATGTAAGTGGATAGGAGAACTGCAGCTGCA 2760  
Db 3028 ATTCTGCGCATTCACATTTTAAATAATATGTAAGTGGATAGGAGAACTGCAGCTGCA 3087  
QY 2761 ATAGCCTAGGCTGAAATTTTGTGAGATAAATAAATAAATCAATCATCTCTT 2812  
Db 3088 ATAGCCTAGGCTGAAATTTTGTGAGATAAATAAATAAATCAATCATCTCTT 3139

RESULT 10  
US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GAAATCAGGAGATGATGACAAATGGGGCAATTAAGAGTCTGTGTTCACTCTGATT 60  
Db 328 GGAATCAGGAGATGATGACAAATGGGGCAATTAAGAGTCTGTGTTCACTCTGATT 387  
QY 61 CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTATCAGCTGAACAAATGGCTAT 120  
Db 388 CTTCACCTTCTAGAGGGGCCCTGAGTAATTCATCTATCAGCTGAACAAATGGCTAT 447  
QY 121 GAAGGCATTTGCTTGAATCGACCCCAATGTCGAGAGATGAACACTCAATCAACAA 180  
Db 448 GAAGGCATTTGCTTGAATCGACCCCAATGTCGAGAGATGAACACTCAATCAACAA 507  
QY 181 ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGGAAGCGATT 240  
Db 508 ATAAGGACATGTTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGGAAGCGATT 567  
QY 241 TATTTCAAAATGTTGCAATTTGATCTCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300

Db 568 TATTTCAAAATGTTGCCAATTTTGATTCCTGAAACATGGAAGACAAAGCTGACTATGTG 627  
QY 301 AGACCAAACTTTGAGACCTTACAAAATCTGATGTTCTTGGTTCGTGAGTCTACTCTCTCCA 360  
Db 628 AGACCAAACTTTGAGACCTTACAAAATCTGATGTTCTTGGTTCGTGAGTCTACTCTCCA 687  
QY 361 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAAGGTTGAAAGGATC 420  
Db 688 GGTAAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAAGGTTGAAAGGATC 747  
QY 421 CACCTCACTCTGATTTTCAATTTGAGGAAAAGTTAGCTGAATATGGAACCAACAGGTAGG 480  
Db 748 CACCTCACTCTGATTTTCAATTTGAGGAAAAGTTAGCTGAATATGGAACCAACAGGTAGG 807  
QY 481 GCATTTGTCATGAGTGGGCTCATCTAGATGGGAGTATTTGACGAGTACAATAATGAT 867  
Db 808 GCATTTGTCATGAGTGGGCTCATCTAGATGGGAGTATTTGACGAGTACAATAATGAT 867  
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Db 868 GAGAAATTTCTATATCCAAATGGAAGAAATCAAGCAGTAAGATGTTTACGAGGTTACT 927  
QY 601 GGTACAAATCTAGTAAAGAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCACATTC 660  
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QY 661 AATAAAGTAAACAGACTCTATGATAAAGAGTGTGAGTTCCTATGTTTCTCAATCCCGCAGCG 720  
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QY 721 GAGAAGCTTCTATAATGTTTGCACAACTGTTGATTTCTATGTTTGAATTTCTGACAGAA 780  
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QY 781 CAAACCAACAAAGAAAGCTCAAAAGCAAGCAAAATCAAAATGCAATCTCCGAGCACA 840  
Db 1108 CAAACCAACAAAGAAAGCTCAAAAGCAAGCAAAATCAAAATGCAATCTCCGAGCACA 1167  
QY 841 TGGGAAGTGTATCGGTGATTTCTGAGAGCTTTAGAAAACCACTCTATGACACAGACCA 900  
Db 1168 TGGGAAGTGTATCGGTGATTTCTGAGAGCTTTAGAAAACCACTCTATGACACAGACCA 1227  
QY 901 CCAATTCACACCTTCTCATTTGCTGCAGATTGACAAAAGAAATTTGTTTGTCTTGTGAC 960  
Db 1228 CCAATTCACACCTTCTCATTTGCTGCAGATTGACAAAAGAAATTTGTTTGTCTTGTGAC 1287  
QY 961 AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGAGCGCCAGCTT 1020  
Db 1288 AAATCTGGAAGCATGGCGACTGGTAAACCGCTCAATCGACTGAATCAAGAGCGCCAGCTT 1347  
QY 1021 TTCCTGTGACAGACAGTTTGAAGTGGGTCCTGGGTTGGATGGTGAATTTGACAGTGTCT 1080  
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Db 1408 GCCCATGTACAAAGTGAATCATACAGATAAAGAGTGGCAGTGACAGGACACACTGCC 1467  
QY 1141 AAAGATTTACTGTGACAGAGCTTACAGAGGAGCGTCCATCTGACGCGGCTTCGATCGGCA 1200  
Db 1468 AAAGATTTACTGTGACAGAGCTTACAGAGGAGCGTCCATCTGACGCGGCTTCGATCGGCA 1527  
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Db 1528 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGACCGAT 1587  
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Db 1588 GGGGAAGACAACTATAAGTGGGTCCTTTAAACAGGTCAAAAGAGTGGTGCATCATC 1647  
QY 1321 CACACAGTCTGTTGGGCGCTCTGAGCTCAAGAACTAGAGGAGTGTCTCAAAATGACA 1380  
Db 1648 CACACAGTCTGTTGGGCGCTCTGAGCTCAAGAACTAGAGGAGTGTCTCAAAATGACA 1707



2461 GCTCTATCCCAAGGAGGCACTCTGAGGAGTCTTTTGTAAACCCAGAAACATT 2520  
2788 GCTCTATCCCAAGGAGGCACTCTGAGGAGTCTTTTGTAAACCCAGAAACATT 2847  
2521 ACTTTGAAATGSCACAGATCTTTTCACTTCACTGAGGCTGTGTAAGGTCGATCTG 2580  
2848 ACTTTGAAATGSCACAGATCTTTTCACTTCACTGAGGCTGTGTAAGGTCGATCTG 2907  
2581 AAATCAGAAATATCCAACTATGACAGTATCTTTGTTTATTTCTCCACAGATCCGCA 2640  
2908 AAATCAGAAATATCCAACTATGACAGTATCTTTGTTTATTTCTCCACAGATCCGCA 2967  
2641 GAGACACCTAGCTGATGAAACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2700  
2968 GAGACACCTAGCTGATGAAACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3027  
2701 ATTCTGCGCATTCACATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA 2760  
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2761 ATAGCTAGGCTGAAATTTTCTCAGATAAATAAATAAATAAATAAATAAATAAATAA 2812  
3088 ATAGCTAGGCTGAAATTTTCTCAGATAAATAAATAAATAAATAAATAAATAAATAA 3139

RESULT 11  
US-10-393-590-12  
; Sequence 12, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-12

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GAAATCAGGAGATGTACAGCAATGGGCGCATTTAAGAGTCTGTGTTCTGTTCTGATT 60  
Db 328 GGAATCAGGAGATGTACAGCAATGGGCGCATTTAAGAGTCTGTGTTCTGTTCTGATT 387  
Qy 61 CTTTCACTCTAGAGGGGCGCTCAGTAATTCATCTTACGCTGAAACAAATGGCTAT 120  
Db 388 CTTTCACTCTAGAGGGGCGCTCAGTAATTCATCTTACGCTGAAACAAATGGCTAT 447  
Qy 121 GAAGCATTTGCTTGAATCGACCCCAATGCGCAGAGATGAAACACTCATTCACAA 180  
Db 448 GAAGCATTTGCTTGAATCGACCCCAATGCGCAGAGATGAAACACTCATTCACAA 507  
Qy 181 ATAAGGACATGGTGACCCAGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATT 240  
Db 508 ATAAGGACATGGTGACCCAGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATT 567  
Qy 241 TATTTCAAAATGTTGCCATTTTGTCTGAAACATGAAACAAAGAGCTGACTATGTG 300  
Db 568 TATTTCAAAATGTTGCCATTTTGTCTGAAACATGAAACAAAGAGCTGACTATGTG 627  
Qy 301 AGACCAAACTTGAGACCTTACAAAATGCTGAATGTTGTTGCTGAGTCTACTCTCCA 360  
Db 628 AGACCAAACTTGAGACCTTACAAAATGCTGAATGTTGTTGCTGAGTCTACTCTCCA 687

1381 GGAGTTTACAGACATATGCTTTCAGATCAAGTTTCAAGCAATGCGCTCATTTGATGCTTTT 1440  
1708 GGAGTTTACAGACATATGCTTTCAGATCAAGTTTCAAGCAATGCGCTCATTTGATGCTTTT 1767  
1441 GGGGCCCTTTTATCAGGAAATGAGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500  
1768 GGGGCCCTTTTATCAGGAAATGAGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1827  
1501 GGATTAACCTTCCAGACAGGAGGAGTGAATGACAGTATGCTGAGACAGACCGTG 1560  
1828 GGATTAACCTTCCAGACAGGAGGAGTGAATGACAGTATGCTGAGACAGACCGTG 1887  
1561 GGAAAGGACACTTTGTTTCTTATCCTGGAACAGCGAGCTCCCAAAATCTTCTCTGG 1620  
1898 GGAAAGGACACTTTGTTTCTTATCCTGGAACAGCGAGCTCCCAAAATCTTCTCTGG 1947  
1621 GATCCAGTGAGACAGAGGAGTGGCTTTGTAGTGGAACAAACACCAAAATGGCCTAC 1680  
1948 GATCCAGTGAGACAGAGGAGTGGCTTTGTAGTGGAACAAACACCAAAATGGCCTAC 2007  
1681 CTCCAAATCCAGGCAATCTCTAAGTTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
2008 CTCCAAATCCAGGCAATCTCTAAGTTTGGCACTTGGCAATACAGTCTGCAAGCAAGCTCA 2067  
1741 CAAACCTTGACCTGACTGTCAGTCCCGTGGTCCAAATGCTTACCTGCTCCAAATACA 1800  
2068 CAAACCTTGACCTGACTGTCAGTCCCGTGGTCCAAATGCTTACCTGCTCCAAATACA 2127  
1801 GTGACTTCCAAACGAGACAGACAGCAACCAATCCCGAGCTCTGCTGAGTTTATGCA 1860  
2128 GTGACTTCCAAACGAGACAGACAGCAACCAATCCCGAGCTCTGCTGAGTTTATGCA 2187  
1861 AATATTGCGCAAGGAGCTCCCAATCTCAGGCGCAGTGTACAGCCCTGATGTAATCA 1920  
2188 AATATTGCGCAAGGAGCTCCCAATCTCAGGCGCAGTGTACAGCCCTGATGTAATCA 2247  
1921 GTGAAATGGAACAAAGTACTCTTGGAACTATGTAATGATGAGAGCTGCTGATCTACT 1980  
2248 GTGAAATGGAACAAAGTACTCTTGGAACTATGTAATGATGAGAGCTGCTGATCTACT 2307  
1981 AAGATGACGGTGTCTACTCAAGTATTTTCACTTATGACAGCAATGTTAGATACAGT 2040  
2308 AAGATGACGGTGTCTACTCAAGTATTTTCACTTATGACAGCAATGTTAGATACAGT 2367  
2041 GTAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCAGAGAGTGAATCCCGAGAG 2100  
2368 GTAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCAGAGAGTGAATCCCGAGAG 2427  
2101 AGTGAGACCTGTATACATACCTGGCTGGATGAGAAATGATGAATGAAATCCACCA 2160  
2428 AGTGAGACCTGTATACATACCTGGCTGGATGAGAAATGATGAATGAAATCCACCA 2487  
2161 AGACTGAAATTAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGACAGAACATCC 2220  
2488 AGACTGAAATTAAGGATGATGTTCAACACAGCAAGTGTGTTTCAGACAGAACATCC 2547  
2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTCCCA 2280  
2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATACCTGATCTCTCCCA 2607  
2281 CTTGCCAAATCACCAGCTGAGCGGGAATTTACGGGGGAGTCTCATTAATCTGACT 2340  
2608 CTTGCCAAATCACCAGCTGAGCGGGAATTTACGGGGGAGTCTCATTAATCTGACT 2667  
2341 TGGACAGCTCTCGGGGATGATTTATGACCATGGAACAGCTCACAAGTATATCTCGAATA 2400  
2668 TGGACAGCTCTCGGGGATGATTTATGACCATGGAACAGCTCACAAGTATATCTCGAATA 2727  
2401 AGTACAAATGTTCTTGTATCTCAGACAGCAAGTTCAATGAAATCTCTCAAGTGAATCTACT 2460  
2728 AGTACAAATGTTCTTGTATCTCAGACAGCAAGTTCAATGAAATCTCTCAAGTGAATCTACT 2787

QY 361 GGTAAATGATGAACCCCTACCTGAGCAGATGGCAACTGTGGAGAGAAAGGTGAAGGATC 420  
Db 688 GGTAAATGATGAACCCCTACCTGAGCAGATGGCAACTGTGGAGAGAAAGGTGAAGGATC 747  
QY 421 CACCTCACTCTGATTTTCATTTGCGAGGAAAAGTTAGCTGATATATGACCAACAGGTAGG 480  
Db 748 CACCTCACTCTGATTTTCATTTGCGAGGAAAAGTTAGCTGATATATGACCAACAGGTAGG 807  
QY 481 GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 540  
Db 808 GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 867  
QY 541 GAGAAATTTCTACTTATCCAAATGGAAGAATAACAGCAGTAAGATGTTTCTGAGAGGTATTA 600  
Db 868 GAGAAATTTCTACTTATCCAAATGGAAGAATAACAGCAGTAAGATGTTTCTGAGAGGTATTA 927  
QY 601 GGTACAAATGCTAGTAAAGAAAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCATTC 660  
Db 928 GGTACAAATGCTAGTAAAGAAAGTGTGAGGAGGAGCTGTTTACACCAAAAGATGCATTC 987  
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Db 988 AATAAGTAAACAGGACTCTATGAAAAAGATGTGAGTTGTTCTTCCAAATCCCGCAGAG 1047  
QY 721 GAGAGGCTTCTATATGTTTGCAACATGTTGATCTATAGTTGAAATTTCTGACAGAA 780  
Db 1048 GAGAGGCTTCTATATGTTTGCAACATGTTGATCTATAGTTGAAATTTCTGACAGAA 1107  
QY 781 CAAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGGACA 840  
Db 1108 CAAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGGACA 1167  
QY 841 TGGGAAGTGCATCGTGATTTGAGGACTTTTAAAGAAACCACTCCTATGACAAACAGGCA 900  
Db 1168 TGGGAAGTGCATCGTGATTTGAGGACTTTTAAAGAAACCACTCCTATGACAAACAGGCA 1227  
QY 901 CCAATCCCACTTCTCATTTGTCGAGATGGAACAAAGATTTGTTAGTCTTTGAC 960  
Db 1228 CCAATCCCACTTCTCATTTGTCGAGATGGAACAAAGATTTGTTAGTCTTTGAC 1287  
QY 961 AAATCTGGAAGCATGGCAGTGTAAACCGCTCAATCGACTCAATCAAGCAGGCGAGCTT 1020  
Db 1288 AAATCTGGAAGCATGGCAGTGTAAACCGCTCAATCGACTCAATCAAGCAGGCGAGCTT 1347  
QY 1021 TTCCTGTCGACAGATTTGAGCTGGGCTCTGGGTTGGATGGTGACATTTGACAGTGT 1080  
Db 1348 TTCCTGTCGACAGATTTGAGCTGGGCTCTGGGTTGGATGGTGACATTTGACAGTGT 1407  
QY 1081 GCCCATGTACAAGTGAATCTATACAGATAACAGTGGCAGTGAACAGGACACATCGCC 1140  
Db 1408 GCCCATGTACAAGTGAATCTATACAGATAACAGTGGCAGTGAACAGGACACATCGCC 1467  
QY 1141 AAAAGATTACCTGACAGCTTCAGAGGAGCGTCCATCTGACGGGCTTCGATCGGCA 1200  
Db 1468 AAAAGATTACCTGACAGCTTCAGAGGAGCGTCCATCTGACGGGCTTCGATCGGCA 1527  
QY 1201 TTTTACTGTGATAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGTCGACGGAT 1260  
Db 1528 TTTTACTGTGATAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGTCGACGGAT 1587  
QY 1261 GGGGAGACACACTATTAAGTGGGTCTTTAACGAGGTCAACAAAGTGGTGGCCATCATC 1320  
Db 1588 GGGGAGACACACTATTAAGTGGGTCTTTAACGAGGTCAACAAAGTGGTGGCCATCATC 1647  
QY 1321 CACACAGTCGCTTTGGGCGCTCTGACGCTCAAGACTAGAGGAGCTGTCCAAATGACA 1380  
Db 1648 CACACAGTCGCTTTGGGCGCTCTGACGCTCAAGACTAGAGGAGCTGTCCAAATGACA 1707  
QY 1381 GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATGCGCTCATTTGAGTCTTT 1440  
Db 1708 GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACATGCGCTCATTTGAGTCTTT 1767  
QY 1441 GGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500

Db 1768 GGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1827  
QY 1501 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCACAGTGAATGCGACAGCCGTG 1560  
Db 1828 GGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCACAGTGAATGCGACAGCCGTG 1887  
QY 1561 GGAAGGACACTTTGTTTCTTATCACCTGGACAAACAGCGCTCCCAAAATCCTTCTCTGG 1620  
Db 1888 GGAAGGACACTTTGTTTCTTATCACCTGGACAAACAGCGCTCCCAAAATCCTTCTCTGG 1947  
QY 1621 GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGACAAAAACACAAATGSCCTAC 1680  
Db 1948 GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGACAAAAACACAAATGSCCTAC 2007  
QY 1681 CTCCAATCCAGGCAATGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
Db 2008 CTCCAATCCAGGCAATGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
QY 1741 CAAACCTTGACCTGACTGTACGTCCCGTGGCTCCAAATGCTACCTGCTCCAAATTACA 1800  
Db 2068 CAAACCTTGACCTGACTGTACGTCCCGTGGCTCCAAATGCTACCTGCTCCAAATTACA 2127  
QY 1801 GTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCAAGCCTCTGTPAGTTATGCA 1860  
Db 2128 GTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCAAGCCTCTGTPAGTTATGCA 2187  
QY 1861 AATATTGCGCAAGAGCCTCCCAATCTCAGGCGCAGTGTCAAGCCCTGATTTGAATCA 1920  
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QY 1921 GTGAATGGAAGAAACAGTTACTTGGAACTACTGGATAATGGAGCAGTGTGATGCTACT 1980  
Db 2248 GTGAATGGAAGAAACAGTTACTTGGAACTACTGGATAATGGAGCAGTGTGATGCTACT 2307  
QY 1981 AAGGATGACGCTGTCTACTCAAGGATTTTCAAACTTATGACACGAATGGTAGATACAGT 2040  
Db 2308 AAGGATGACGCTGTCTACTCAAGGATTTTCAAACTTATGACACGAATGGTAGATACAGT 2367  
QY 2041 GTAAAAGTGGCGGCTCTGGAGGAGTTAACGAGCCAGCAGAGAGTGAATCCCGAGAG 2100  
Db 2368 GTAAAAGTGGCGGCTCTGGAGGAGTTAACGAGCCAGCAGAGAGTGAATCCCGAGAG 2427  
QY 2101 AGTGAGACCTGTATACATCTGGCTGGATGGAATGATGAATGAATGAATGAATGAATGA 2160  
Db 2428 AGTGAGACCTGTATACATCTGGCTGGATGGAATGATGAATGAATGAATGAATGAATGA 2487  
QY 2161 AGACCTGAAATTAATAAGGATGATTTCAACAAAGCAAGTGTGTTTTCAGCAGAAATCC 2220  
Db 2488 AGACCTGAAATTAATAAGGATGATTTCAACAAAGCAAGTGTGTTTTCAGCAGAAATCC 2547  
QY 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTCTTCCA 2280  
Db 2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCATACCTGATCTCTTCCA 2607  
QY 2281 CCTGGCCAAATCACCGACCTGAAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT 2340  
Db 2608 CCTGGCCAAATCACCGACCTGAAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT 2667  
QY 2341 TGGACAGCTCTGGGATGATTTATGACATGGAACAGCTCAAGTATATCATTCGAATA 2400  
Db 2668 TGGACAGCTCTGGGATGATTTATGACATGGAACAGCTCAAGTATATCATTCGAATA 2727  
QY 2401 AGTACAAAGTATTTCTTGTATCTCAGAGCAAGTCAATGAATCTTCAAGTGAATACTACT 2460  
Db 2728 AGTACAAAGTATTTCTTGTATCTCAGAGCAAGTCAATGAATCTTCAAGTGAATACTACT 2787  
QY 2461 GCTCTATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATT 2520  
Db 2788 GCTCTATCCAAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTAAACAGAAAAACATT 2847  
QY 2521 ACTTTTGAATGGCAGATCTTTTCTGCTATTCAGGCTGTGATGAAGTGCATCTG 2580

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Db	2848	ACTTTTGAATAATGCGACAGATCTTTTCATTGCTATTTCAGGCTGTTCATAGGTCGATCTG	2907
Qy	2581	AAATCGAATAATCCAAATTTGCACAGATATCTTTGTTTATTCTCCACAGATCCGCCA	2640
Db	2908	AAATCGAATAATCCAAATTTGCACAGATATCTTTGTTTATTCTCCACAGATCCGCCA	2967
Qy	2641	GAGACACTAGTCCTGATGATAACGCTGCTGCTCTGCTCTTAATATTCATATCAACAGCACC	2700
Db	2968	GAGACACTAGTCCTGATGATAACGCTGCTGCTCTGCTCTTAATATTCATATCAACAGCACC	3027
Qy	2701	ATTCCTGGCATTCACATTTTAAAAATTAATGTGGAAGTGGATAGAGAACTGCAGCTGTCA	2760
Db	3028	ATTCCTGGCATTCACATTTTAAAAATTAATGTGGAAGTGGATAGAGAACTGCAGCTGTCA	3087
Qy	2761	ATAGCCTAGGCTGAAATTTTGTGCAGATAAATAAATCAATCATTCCTT	2812
Db	3088	ATAGCCTAGGCTGAAATTTTGTGCAGATAAATAAATCAATCATTCCTT	3139
RESULT 12			
US-10-393-590-46			
; Sequence 46, Application US/10393590			
; Publication No. US20030190656A1			
; GENERAL INFORMATION:			
; APPLICANT: WANG, YIXIN			
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO			
; FILE REFERENCE: CDS 268 US NP			
; CURRENT APPLICATION NUMBER: US/10/393,590			
; CURRENT FILING DATE: 2003-03-21			
; PRIOR APPLICATION NUMBER: 60/368,789			
; PRIOR FILING DATE: 2002-03-29			
; NUMBER OF SEQ ID NOS: 100			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 46			
; LENGTH: 3311			
; TYPE: DNA			
; ORGANISM: human			
US-10-393-590-46			
Query Match 99.8%; Score 2807.2; DB 15; Length 3311;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0			
Qy	1	GAAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTCACTCTGATT	60
Db	328	GGAATCAGAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCGTGTTCACTCTGATT	387
Qy	61	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAACTATGGCTAT	120
Db	388	CTTCACCTTCTAGAAGGGCCCTGAGTAATTCACCTCATTCAGCTGAACAACTATGGCTAT	447
Qy	121	GAAGGCATTTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAACAATCTATTCACAA	180
Db	448	GAAGGCATTTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAACAATCTATTCACAA	507
Qy	181	ATAAGGACATGTTGACCCAGGCATCTCTGATCTCTGTTTGAAGCTACAGGAAGCGATT	240
Db	508	ATAAGGACATGTTGACCCAGGCATCTCTGATCTCTGTTTGAAGCTACAGGAAGCGATT	567
Qy	241	TATTTCAAAAAATCTTGCCATTTTGAATCTCGTGAACATGGAAGCAAAAGGCTGACTATGTG	300
Db	568	TATTTCAAAAAATCTTGCCATTTTGAATCTCGTGAACATGGAAGCAAAAGGCTGACTATGTG	627
Qy	301	AGACCAAAATCTGAGACCTACAAAAATGCTGATGTTCTGGTTCCTGAGTCTACTCTCCA	360
Db	628	AGACCAAAATCTGAGACCTACAAAAATGCTGATGTTCTGGTTCCTGAGTCTACTCTCCA	687
Qy	361	GGTAATGATGAACCTTACACTGAGCAGATGGGCAATGTGGAGAGAGGTTGAAAGCATC	420
Db	688	GGTAATGATGAACCTTACACTGAGCAGATGGGCAATGTGGAGAGAGGTTGAAAGCATC	747
Qy	421	CACCTCCTCTCTGATTTTCATTTGAGGAAAAAAGTTAGCTGAATATGGAACACAGGTAGG	480

1561 GGAAGGACACTTTGTTTCTTATCACCTGGACACGAGCTCCCAAAATCCTTCTCTGG 1620  
1888 GGAAGGACACTTTGTTTCTTATCACCTGGACACGAGCTCCCAAAATCCTTCTCTGG 1947  
1621 GATCCAGTGGAGCAGAAAGAGTGGCTTTGTAGTGACAAAAACACCAAAATGGGCTAC 1680  
1948 GATCCAGTGGAGCAGAAAGAGTGGCTTTGTAGTGACAAAAACACCAAAATGGGCTAC 2007  
1681 CTCCAATCCCAGGCAATGCTAAGGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
2008 CTCCAATCCCAGGCAATGCTAAGGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
1741 CAAACCTTGACCTGACTGTACCTCCCGTCCCAATGCTACCTCCCAATTACA 1800  
2068 CAAACCTTGACCTGACTGTACCTCCCGTCCCAATGCTACCTCCCAATTACA 2127  
1801 GTGACTTCCAAACGAAACAGGACACAGCAAAATCCCGAGCCCTCTGGTAGTTATGCA 1860  
2128 GTGACTTCCAAACGAAACAGGACACAGCAAAATCCCGAGCCCTCTGGTAGTTATGCA 2187  
1861 AATATTCGCCAGGAGCTCCCAATCTCAGGCCAGTGTACAGCCCTGATTTGAATCA 1920  
2188 AATATTCGCCAGGAGCTCCCAATCTCAGGCCAGTGTACAGCCCTGATTTGAATCA 2247  
1921 GTGAATGGAAAAACAGTTACCTTGGAACTACTGGATAATGGAGCAGTCTGATGCTACT 1980  
2248 GTGAATGGAAAAACAGTTACCTTGGAACTACTGGATAATGGAGCAGTCTGATGCTACT 2307  
1981 AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACACGAATGGTAGACGT 2040  
2308 AAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGACACGAATGGTAGACGT 2367  
2041 GTAAGATCGGGCTCTGGAGAGTTAAGCAGCAGACGAGAGTGATACCCAGCAG 2100  
2368 GTAAGATCGGGCTCTGGAGAGTTAAGCAGCAGACGAGAGTGATACCCAGCAG 2427  
2101 AGTGAGCACTGTACATACCTGGCTGGATTGAGATGATGAATCAATGGAAATCCACCA 2160  
2428 AGTGAGCACTGTACATACCTGGCTGGATTGAGATGATGAATCAATGGAAATCCACCA 2487  
2161 AGACTGAAATTAAGGATGATGTTCAACAAGCAAGTGTGTTTCAGCAGAAATCC 2220  
2488 AGACTGAAATTAAGGATGATGTTCAACAAGCAAGTGTGTTTCAGCAGAAATCC 2547  
2221 TCGGAGGCTCATTTGTGCTCTGATGTCCTCAAAATGCTCCATACCTGATCTTCCCA 2280  
2548 TCGGAGGCTCATTTGTGCTCTGATGTCCTCAAAATGCTCCATACCTGATCTTCCCA 2607  
2281 CTTGCCAAATCACCAGCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT 2340  
2608 CTTGCCAAATCACCAGCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT 2667  
2341 TGGACAGCTCTGGGGATGATTAATGACATGAAACAGCTCAAGTATATCATTTGGAATA 2400  
2668 TGGACAGCTCTGGGGATGATTAATGACATGAAACAGCTCAAGTATATCATTTGGAATA 2727  
2401 AGTCAAGTATCTTGATCTCAGACAGAAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2460  
2728 AGTCAAGTATCTTGATCTCAGACAGAAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2787  
2461 GCTCTCATCCCAAGAGGCAACTCTCAGGAAGTCTTTTGTGTTTAAACCGAAGCAAT 2520  
2788 GCTCTCATCCCAAGAGGCAACTCTCAGGAAGTCTTTTGTGTTTAAACCGAAGCAAT 2847  
2521 ACTTTGAAATGGACAGATCTTTTCAATTCAGGCTGTTGATAAGTGCATCTG 2580  
2848 ACTTTGAAATGGACAGATCTTTTCAATTCAGGCTGTTGATAAGTGCATCTG 2907  
2581 AAATCAGAAATATCCAACTTGCAGGATCTTTTGTGTTTATCTTCCACAGACTCCGCCA 2640  
2908 AAATCAGAAATATCCAACTTGCAGGATCTTTTGTGTTTATCTTCCACAGACTCCGCCA 2967

2641 GAGACACCTAGTCTCTGATGAAACGCTGTGCTCCTTGTCTTAATATTCATCAACAGCACC 2700  
2968 GAGACACCTAGTCTCTGATGAAACGCTGTGCTCCTTGTCTTAATATTCATCAACAGCACC 3027  
2701 ATTCTCGGCATTACACATTTTAAATAATATGTGGAAGTGGATAGAGAACTGCAGCTGTCA 2760  
3028 ATTCTCGGCATTACACATTTTAAATAATATGTGGAAGTGGATAGAGAACTGCAGCTGTCA 3087  
2761 ATAGCCTAGGCTGAAATTTTGTGATGATAAATAAATAATCAATCTTCACTCTT 2812  
3088 ATAGCCTAGGCTGAAATTTTGTGATGATAAATAAATAATCAATCTTCACTCTT 3139

RESULT 13  
US-10-393-590-47  
; Sequence 47, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-47

Query Match 99.8%; Score 2807.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2809; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTAAGAGTTCTGTGTTCACTTTGATT 60  
328 GGAATCACAGGAGATGTACAGCAATGGGGCCATTAAGAGTTCTGTGTTCACTTTGATT 387  
61 CTTCACTCTTAGAAGGGCCCTGAGTAATTCATCTCAGCTGAAACAATGGCTAT 120  
388 CTTCACTCTTAGAAGGGCCCTGAGTAATTCATCTCAGCTGAAACAATGGCTAT 447  
121 GAAGGCATTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTTCAACA 180  
448 GAAGGCATTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTTCAACA 507  
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508 ATAAAGACATGGTGACCCAGGCATCTCTGATCTGTTTGAAGCTACAGGAAGCGATT 567  
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568 TATTCAAAATGTTGCCATTTTCAATTCCTGAAACATGGAAGCAAGGCTGATGTG 627  
301 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCCA 360  
628 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCCA 687  
361 GGTAAATGAAACCTTACCTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC 420  
688 GGTAAATGAAACCTTACCTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC 747  
421 CACCTGACTCTGATTTTCAATTCAGGAAAAAAGTTAGTGAATATGACCAAGAGTAGG 480  
748 CACCTGACTCTGATTTTCAATTCAGGAAAAAAGTTAGTGAATATGACCAAGAGTAGG 807  
481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATGAT 540  
808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATGAT 867

QY	541	GAGAAATTTCTACTTATCCAAATGGAAGATACAAGCAGTAAGATGTTTTCAGCAGGTATTACT	600	Db	1948	GATCCAGTGACAGAGCAAGCAAGTGGCTTTGTAGTGGACAAAAACCAAAATATGSCCTAC	2007
Db	868	GAGAAATTTCTACTTATCCAAATGGAAGATACAAGCAGTAAGATGTTTTCAGCAGGTATTACT	927	QY	1681	CTCCAAATCCAGGCAATGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
QY	601	GCTCAAAATGAGTAAAGATGTCAGGAGGAGCAGTGTACACCAAAAGATGCAATTC	660	Db	2008	CTCCAAATCCAGGCAATGCTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	2067
Db	928	GCTCAAAATGAGTAAAGATGTCAGGAGGAGCAGTGTACACCAAAAGATGCAATTC	987	QY	1741	CAAACTTTGACCTGACTGTCAGCTCCCGTGGTCCAAATGCTTACCTGCTCCCAATTACA	1800
QY	661	AATAAGTAAACAGGACTCTATGAAAGAGATGATGTTTGTCTCAATTCGCCGACAGG	720	Db	2068	CAAACTTTGACCTGACTGTCAGCTCCCGTGGTCCAAATGCTTACCTGCTCCCAATTACA	2127
Db	988	AATAAGTAAACAGGACTCTATGAAAGAGATGATGTTTGTCTCAATTCGCCGACAGG	1047	QY	1801	GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATTCGCCAGCCCTCTGCTAGTTATGCA	1860
QY	721	GAGAAGGCTTCTATATGTTTGCAACAATGTTGATCTATATGTTGAAATTCGTACAGAA	780	Db	2128	GTGACTTCCAAAACGAAACAGGACACCAAGCAAAATTCGCCAGCCCTCTGCTAGTTATGCA	2187
Db	1048	GAGAAGGCTTCTATATGTTTGCAACAATGTTGATCTATATGTTGAAATTCGTACAGAA	1107	QY	1861	AATATTCGCAAGAGAGCCCTCCCAATTCCTCAGGCGCAGTGTACAGCCCTGATTCGAATCA	1920
QY	781	CAAAACCAACAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATTCGCAAGCACA	840	Db	2188	AATATTCGCAAGAGAGCCCTCCCAATTCCTCAGGCGCAGTGTACAGCCCTGATTCGAATCA	2247
Db	1108	CAAAACCAACAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATTCGCAAGCACA	1167	QY	1921	GTGAATGGAACCAAGTATTACCTTGGAACTACTTGGATTAATGGAGCAGGTCTGATGCTACT	1980
QY	841	TGGGAAGTATCCGTGATTTGAGGACTTTAAGAAACCACTCTATGCAACACAGCCA	900	Db	2248	GTGAATGGAACCAAGTATTACCTTGGAACTACTTGGATTAATGGAGCAGGTCTGATGCTACT	2307
Db	1168	TGGGAAGTATCCGTGATTTGAGGACTTTAAGAAACCACTCTATGCAACACAGCCA	1227	QY	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAATGGTAGATACAGT	2040
QY	901	CCAAATCCCACTTCTCATTTGCTGAGATTTGACAAAGAAATTTGTTTGTCTTGTGAC	960	Db	2308	AAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAATGGTAGATACAGT	2367
Db	1228	CCAAATCCCACTTCTCATTTGCTGAGATTTGACAAAGAAATTTGTTTGTCTTGTGAC	1287	QY	2041	GTAAAAGTGGGGCTCTGGGAGGATTAACGAGCAGCAGACGAGAGTGATACCCAGCAG	2100
QY	961	AAATCTGGAAGCATGCGACTGTATACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020	Db	2368	GTAAAAGTGGGGCTCTGGGAGGATTAACGAGCAGCAGACGAGAGTGATACCCAGCAG	2427
Db	1288	AAATCTGGAAGCATGCGACTGTATACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1347	QY	2101	AGTGAGGACACTGTACATACCTGGCTGGATTGAGATGATGAATAACAATGGAATCCACCA	2160
QY	1021	TTCTCTGCTGACAGACTTCAAGTGGGGTCTGGTTGGAGTGGATGATTTGACAGTGTCT	1080	Db	2428	AGTGAGGACACTGTACATACCTGGCTGGATTGAGATGATGAATAACAATGGAATCCACCA	2487
Db	1348	TTCTCTGCTGACAGACTTCAAGTGGGGTCTGGTTGGAGTGGATGATTTGACAGTGTCT	1407	QY	2161	AGACCTGAAATTAATAAGATGATTTCAACAAGCAAGTGTGTTTTCAGAGCAATCC	2220
QY	1081	GCCCATGTCAAAGTAACTCATACAGATAACAGTGGCAGTGACAGGACACACTCGCC	1140	Db	2488	AGACCTGAAATTAATAAGATGATTTCAACAAGCAAGTGTGTTTTCAGAGCAATCC	2547
Db	1408	GCCCATGTCAAAGTAACTCATACAGATAACAGTGGCAGTGACAGGACACACTCGCC	1467	QY	2221	TGGGAGGCTCATTTTGGCTTCTGATGTCCTCAAAATGCTCCCATCTCTCTTCCCA	2280
QY	1141	AAAGATTAACCTGCAGCAGCTTCAGGAGGACCTCCATCTGACGCGGGCTTCGATCGGCA	1200	Db	2548	TGGGAGGCTCATTTTGGCTTCTGATGTCCTCAAAATGCTCCCATCTCTCTTCCCA	2607
Db	1468	AAAGATTAACCTGCAGCAGCTTCAGGAGGACCTCCATCTGACGCGGGCTTCGATCGGCA	1527	QY	2281	CCTGGCCAAATCACGACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACT	2340
QY	1201	TTTACTGTGATTAAGAAATATCCAACTGATGATGATGATGATGATGATGATGATGAT	1260	Db	2608	CCTGGCCAAATCACGACCTGAAGCGGAAATTCACGGGGGAGTCTCAATTAATCTGACT	2667
Db	1528	TTTACTGTGATTAAGAAATATCCAACTGATGATGATGATGATGATGATGATGATGAT	1587	QY	2341	TGGACAGCTCCTGGGATGATTTATGACATGGAACAGCTCAAGTATATCATTCGAATA	2400
QY	1261	GGGGAAGACAACTATAGTGGTGTCTTAAAGAGTCAAAACAAAGTGGTGGCATCATC	1320	Db	2668	TGGACAGCTCCTGGGATGATTTATGACATGGAACAGCTCAAGTATATCATTCGAATA	2727
Db	1588	GGGGAAGACAACTATAGTGGTGTCTTAAAGAGTCAAAACAAAGTGGTGGCATCATC	1647	QY	2401	AGTACAGTATTTCTTCTGATCTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATACTACT	2460
QY	1321	CACACAGTCTGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA	1380	Db	2728	AGTACAGTATTTCTTCTGATCTCAGAGACAAGTTCAATGAATCTCTCAAGTGAATACTACT	2787
Db	1648	CACACAGTCTGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGTGTCCAAAATGACA	1707	QY	2461	GCTCTCATCCAAAGGAAAGCCAACTCTGAGGAAAGTCTTTTGTTTAAACAGAAAAACATT	2520
QY	1381	GGAGGTTTACAGACATATGCTCAGATCAAGTTCAAGAACTAGAGGAGTGTCCAAAATGACA	1440	Db	2788	GCTCTCATCCAAAGGAAAGCCAACTCTGAGGAAAGTCTTTTGTTTAAACAGAAAAACATT	2847
Db	1708	GGAGGTTTACAGACATATGCTCAGATCAAGTTCAAGAACTAGAGGAGTGTCCAAAATGACA	1767	QY	2521	ACTTTTGAATGGCAAGATCTTTTCTTCTGATTTTTCAGCTGTTGATGAGGTGATCTG	2580
QY	1441	GGGCGCTTTTATCAGGAATGAGTGTCTCTCAGGCTCCATCCAGCTTGGAGTGAAG	1500	Db	2848	ACTTTTGAATGGCAAGATCTTTTCTTCTGATTTTTCAGCTGTTGATGAGGTGATCTG	2907
Db	1768	GGGCGCTTTTATCAGGAATGAGTGTCTCTCAGGCTCCATCCAGCTTGGAGTGAAG	1827	QY	2581	AAATCAGAAATATCCAAATTCAGCAGTATCTTTGTTTATTTCTCCACAGACTCCGCGCA	2640
QY	1501	GGATTAACCTCCAGAACAGCAGTGGATGAATGGCAAGTGTGTTGGAAGCAGCCGTG	1560	Db	2908	AAATCAGAAATATCCAAATTCAGCAGTATCTTTGTTTATTTCTCCACAGACTCCGCGCA	2967
Db	1828	GGATTAACCTCCAGAACAGCAGTGGATGAATGGCAAGTGTGTTGGAAGCAGCCGTG	1887	QY	2641	GAGACACTAGTCTGATGAAGAGTCTGCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCT	2700
QY	1561	GGAAAGACACTTTGTTTCTTATCAGCTGGAACAGCAGCTCCGCAAAATCTCTCTG	1620	Db	2968	GAGACACTAGTCTGATGAAGAGTCTGCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCT	3027
Db	1888	GGAAAGACACTTTGTTTCTTATCAGCTGGAACAGCAGCTCCGCAAAATCTCTCTG	1947	QY	2701	ATTCTCTGGCAATTCACATTTTAAAAATTTATGTTGGAAGTGGATGAGAGACTGACGCTGCA	2760

Db 3028 ATTCTGGCAATTCACATTTTAAATAATATGTGAAAGTGGATAGGAGAACTGCAGCTGTCA 3087

Qy 2761 ATAGCTAGGGCTGAATTTTGTGAGATAAAATAAATAAATCAATTCATCCTT 2812

Db 3088 ATAGCTAGGGCTGAATTTTGTGAGATAAATAAATAAATCAATTCATCCTT 3139

## RESULT 14

US-10-393-567-11

; Sequence 11, Application US/10393567

; Publication No. US20030194733A1

; GENERAL INFORMATION:

; APPLICANT: WANG, YIXIN

; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL

; FILE REFERENCE: CDS 269 US NP

; CURRENT APPLICATION NUMBER: US/10/393,567

; CURRENT FILING DATE: 2003-03-21

; PRIOR APPLICATION NUMBER: 60/368,667

; PRIOR FILING DATE: 2002-03-29

; NUMBER OF SEQ ID NOS: 100

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 11

; LENGTH: 3311

; TYPE: DNA

; ORGANISM: human

; US-10-393-567-11

## Query Match

Best Local Similarity 99.8%; Score 2807.2; DB 15; Length 3311;

Mismatches 2809; Conservative 0; Indels 3; Gaps 0;

Qy 1 GAAATCACAGGGAGATGTACAGCAATGGGCCATTTAAAGATTCTGTGTTTCATCTTGATT 60

Db 328 GGAATCACAGGGAGATGTACAGCAATGGGCCATTTAAAGATTCTGTGTTTCATCTTGATT 387

Qy 61 CTTCACTCTTACAGGGGCCCTGAGTAATTCATCTCATTAGCTGAAACAATGGCTAT 120

Db 388 CTTCACTCTTACAGGGGCCCTGAGTAATTCATCTCATTAGCTGAAACAATGGCTAT 447

Qy 121 GAAGGCATTTGCTTGGCAATCGACCCCAATGTCCAGAGATGAAACACTCATCAACAA 180

Db 448 GAAGGCATTTGCTTGGCAATCGACCCCAATGTCCAGAGATGAAACACTCATCAACAA 507

Qy 181 ATAAAGACATGGTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAGCGATT 240

Db 508 ATAAAGACATGGTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAGCGATT 567

Qy 241 TATTTCAAAAATGTTGCCAATTTTGATTTCTGTAACATGGAAGCAAGGCTGACTATGTG 300

Db 568 TATTTCAAAAATGTTGCCAATTTTGATTTCTGTAACATGGAAGCAAGGCTGACTATGTG 627

Qy 301 AGACCAAACTTGAGACCTTACAAAATGCTGATTTCTGTTGCTGAGTCTACTCTCTCA 360

Db 628 AGACCAAACTTGAGACCTTACAAAATGCTGATTTCTGTTGCTGAGTCTACTCTCTCA 687

Qy 361 GGTATATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAGGTTGAAAGGATC 420

Db 688 GGTATATGATGAACCTTACACTGAGCAGATGGCAACTGTGGAGAGAGGTTGAAAGGATC 747

Qy 421 CACCTCACTCTGATTTCAATTCAGGAAATAGTTAGCTGAATATGGACCAAGGATAGG 480

Db 748 CACCTCACTCTGATTTCAATTCAGGAAATAGTTAGCTGAATATGGACCAAGGATAGG 807

Qy 481 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540

Db 808 GCATTTGCTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 867

Qy 541 GAGAAATTCATCTTATCCAAATGGAAGATATACAGCAGTAAGATGTTTCAGAGGTTACT 600

Db 868 GAGAAATTCATCTTATCCAAATGGAAGATATACAGCAGTAAGATGTTTCAGAGGTTACT 927

Qy 601 GGTACAAATGTAGTAAGAGTGTACGGAGGAGCTGTTACACAAAGATGCACATTC 660

Db 928 GGTACAAATGTAGTAAGAGTGTACGGAGGAGCTGTTACACCAAAAGATGCACATTC 987

Qy 661 AATAAGTAACAGGACTCTATGAAAAGATGTGAGTTGTTCTCCATCCCGCAGAG 720

Db 988 AATAAGTTACAGGACTCTATGAAAAGATGTGAGTTGTTCTCCATCCCGCAGAG 1047

Qy 721 GAGAAGGCTTCTAATAATGTTTGCACACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780

Db 1048 GAGAAGGCTTCTAATAATGTTTGCACACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107

Qy 781 CAAAACCAACAAGAGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAAGCACA 840

Db 1108 CAAAACCAACAAGAGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAAGCACA 1167

Qy 841 TGGGAAGTGATCCGTGATTTCTGAGGACTTTTAAAGAAAACCACTCTATGACAAACAGCA 900

Db 1168 TGGGAAGTGATCCGTGATTTCTGAGGACTTTTAAAGAAAACCACTCTATGACAAACAGCA 1227

Qy 901 CCAAAATCCACCTTCTCATTTGCTGACAGATTGGACAAAGAAATTTGTGTAGTCTTGAC 960

Db 1228 CCAAAATCCACCTTCTCATTTGCTGACAGATTGGACAAAGAAATTTGTGTAGTCTTGAC 1287

Qy 961 AATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCGACCT 1020

Db 1288 AATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAATCAAGCAGGCGACCT 1347

Qy 1021 TTCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTCT 1080

Db 1348 TTCTGCTGCAGACAGTTGAGCTGGGGTCTGGGTTGGGATGGTGACATTTGACAGTCT 1407

Qy 1081 GCCCATGTACAAAGTGAATCTATACAGATAAACAGTGGCAGTGACAGGGGACACACTCGCC 1140

Db 1408 GCCCATGTACAAAGTGAATCTATACAGATAAACAGTGGCAGTGACAGGGGACACACTCGCC 1467

Qy 1141 AAAAGATTAACCTGCAGACAGCTTCAGAGGAGCTCCATCTGACAGCGGCTTCGATCGGCA 1200

Db 1468 AAAAGATTAACCTGCAGACAGCTTCAGAGGAGCTCCATCTGACAGCGGCTTCGATCGGCA 1527

Qy 1201 TTCTGCTGATTTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGAGGAT 1260

Db 1528 TTCTGCTGATTTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGAGGAT 1587

Qy 1261 GGGGAAGACAACTATTAAGTGGTCTTTAACAGGTTCAAAAGGTTGCTGCTGATC 1320

Db 1588 GGGGAAGACAACTATTAAGTGGTCTTTAACAGGTTCAAAAGGTTGCTGCTGATC 1647

Qy 1321 CACACAGTGGCTTTGGGGCCCTCTGCAGCTCAAGACCTAGAGAGAGTGTCCAAAATGACA 1380

Db 1648 CACACAGTGGCTTTGGGGCCCTCTGCAGCTCAAGACCTAGAGAGAGTGTCCAAAATGACA 1707

Qy 1381 GGAGGTTTACAGACATATGCTTTGATCAAGTTCAAGAACAAATGGCTCATTTGATGCTTTT 1440

Db 1708 GGAGGTTTACAGACATATGCTTTGATCAAGTTCAAGAACAAATGGCTCATTTGATGCTTTT 1767

Qy 1441 GGGGGCCCTTTTATCAGGAAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500

Db 1768 GGGGGCCCTTTTATCAGGAAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1827

Qy 1501 GGATTAACCCCTCCAGACAGCGCTGGATGATGSCACAGTGTATGCGACAGCACCGTG 1560

Db 1828 GGATTAACCCCTCCAGACAGCGCTGGATGATGSCACAGTGTATGCGACAGCACCGTG 1887

Qy 1561 GGAAAGGACACTTTGTTTCTTATCACCTGGCAACAGCGCTCCCAAAATCCTTCTCTGG 1620

Db 1888 GGAAAGGACACTTTGTTTCTTATCACCTGGCAACAGCGCTCCCAAAATCCTTCTCTGG 1947

Qy 1621 GATCCAGTGACAGAGCAAGGTTGGTGTGTAGTGGACAAAAACACCAAAATGGCTTAC 1680

Db 1948 GATCCAGTGACAGAGCAAGGTTGGTGTGTAGTGGACAAAAACACCAAAATGGCTTAC 2007

Qy 1681 CTCCAAATCCCAGGCAATTTGAGTTGGACCTTTGGAAATACAGTGTGCAAGCAAGTCA 1740

Db 2008 CTCCAAATCCCAGGCAATTTGAGTTGGACCTTTGGAAATACAGTGTGCAAGCAAGTCA 2067







QY	721	GAGAAGGCTTCTATAATGTTTGCACAACTGTTGATTTCTATAGTTGAAATTTCTGTACAGAA	780
Db	1048	GAGAAGGCTTCTATAATGTTTGCACAACTGTTGATTTCTATAGTTGAAATTTCTGTACAGAA	1107
QY	781	CAAAACCAACAACAAGAAGCTCCAAACAAGCAAAAATCAAAAAATGCAATTCGGAAGCAC	840
Db	1108	CAAAACCAACAACAAGAAGCTCCAAACAAGCAAAAATCAAAAAATGCAATTCGGAAGCAC	1167
QY	841	TGGGAAGTGATCCGCTGATTTCTCAGGACTTTTAAGAAACCACTCCCTATGCAACACAGCCA	900
Db	1168	TGGGAAGTGATCCGCTGATTTCTCAGGACTTTTAAGAAACCACTCCCTATGCAACACAGCCA	1227
QY	901	CCAAATCCCACTTCTCATTTGCTGCAGATTTGACAAAGAAATTTGTGTGTTAGTCCTTGAC	960
Db	1228	CCAAATCCCACTTCTCATTTGCTGCAGATTTGACAAAGAAATTTGTGTGTTAGTCCTTGAC	1287
QY	961	AAATCTGAAGCATGGCACTGGTAACCGCTCAATTCGACTGAATCAAGCAGGCCAGCTT	1020
Db	1288	AAATCTGAAGCATGGCACTGGTAACCGCTCAATTCGACTGAATCAAGCAGGCCAGCTT	1347
QY	1021	TTCTGCTGCAGACAGTTGAGCTGGGGTCTCGGGTTGGGATGGTGACATTTTGCAGAGTGC	1080
Db	1348	TTCTGCTGCAGACAGTTGAGCTGGGGTCTCGGGTTGGGATGGTGACATTTTGCAGAGTGC	1407
QY	1081	GCCCATGTACAAAGTGAACTCATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC	1140
Db	1408	GCCCATGTACAAAGTGAACTCATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC	1467
QY	1141	AAAAGATTACTCTGCAGCAGCTTCAGGAGGAGCTCCATCTCGAGCGGCTTCGATCGGCA	1200
Db	1468	AAAAGATTACTCTGCAGCAGCTTCAGGAGGAGCTCCATCTCGAGCGGCTTCGATCGGCA	1527
QY	1201	TTTACTGTGATTAGGAAGAAATATCCAACTCATGTGATCTGAAATGTCTGCTGACGGAT	1260
Db	1528	TTTACTGTGATTAGGAAGAAATATCCAACTCATGTGATCTGAAATGTCTGCTGACGGAT	1587
QY	1261	GGGGAAGACAACTATAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGTGCGCATCATC	1320
Db	1588	GGGGAAGACAACTATAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGTGCGCATCATC	1647
QY	1321	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380
Db	1648	CACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1707
QY	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGSCCTCATTTGTCCTTT	1440
Db	1708	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGSCCTCATTTGTCCTTT	1767
QY	1441	GGGGCCCTTTCATCAGAAATGAGCTGTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1500
Db	1768	GGGGCCCTTTCATCAGAAATGAGCTGTCTCAGCGTCCATCCAGCTTGAGAGTAAG	1827
QY	1501	GGATTAACCCCTCCAGAACAGCAGTCGATGAATGGCACAGTGTCTGGAAGCAGCACCGTG	1560
Db	1828	GGATTAACCCCTCCAGAACAGCAGTCGATGAATGGCACAGTGTCTGGAAGCAGCACCGTG	1887
QY	1561	GGAAAGGACATTTGTTTCTTATCCTTGGAACACGAGCCTCCCAAAATCTTCTCTGG	1620
Db	1888	GGAAAGGACATTTGTTTCTTATCCTTGGAACACGAGCCTCCCAAAATCTTCTCTGG	1947
QY	1621	GATCCCACTGGACAGAACAGTGGCTTTGTAGTGGACAAAACACCAAAATGGGCTAC	1680
Db	1948	GATCCCACTGGACAGAACAGTGGCTTTGTAGTGGACAAAACACCAAAATGGGCTAC	2007
QY	1681	CTCCAAATCCCAAGGCAATTCCTAAGGTTGGCACTTGGAAATACAGTCTGCAGCAAGTCA	1740
Db	2008	CTCCAAATCCCAAGGCAATTCCTAAGGTTGGCACTTGGAAATACAGTCTGCAGCAAGTCA	2067
QY	1741	CAAACTTGACCCCTGACTGTCACTGCTCCCGTGGGTCCAATGCTACCTGCTCCAATTACA	1800
Db	2068	CAAACTTGACCCCTGACTGTCACTGCTCCCGTGGGTCCAATGCTACCTGCTCCAATTACA	2127
QY	1801	GTGACTTCCAAAACGAAACAGGACACAGCAAAATTCCTCCAGCCCTCTGCTAGTTATGCA	1860

Db	2128	GTGACTTCCAAAACGAACAGACACACGAAATTC	2187	
Qy	1861	AATATTCGCCAAGAGCCTCCCAATTC	1920	
Db	2188	AATATTCGCOAAGAGCCTCCCAATTC	2247	
Qy	1921	GTGAATGGAAAAACAGTTACCTTGGAACT	1980	
Db	2248	GTGAATGGAAAAACAGTTACCTTGGAACT	2307	
Qy	1981	AAGGATGACGGTGCTACTCAAGCTATTTC	2040	
Db	2308	AAGGATGACGGTGCTACTCAAGCTATTTC	2367	
Qy	2041	GTAAAGTGGCGGCTCTGGAGGAGTTAAC	2100	
Db	2368	GTAAAGTGGCGGCTCTGGAGGAGTTAAC	2427	
Qy	2101	AGTGGAGCACTGACATACCTGGCTGGAT	2160	
Db	2428	AGTGGAGCACTGACATACCTGGCTGGAT	2487	
Qy	2161	AGACCTGAAATTAATAAGGATGATGTTCA	2220	
Db	2488	AGACCTGAAATTAATAAGGATGATGTTCA	2547	
Qy	2221	TCGGGAGGCTCATTTGTGGCTCTGATGT	2280	
Db	2548	TCGGGAGGCTCATTTGTGGCTCTGATGT	2607	
Qy	2281	CCTGGGCCAATCACCGACCTGAGGCGG	2340	
Db	2608	CCTGGGCCAATCACCGACCTGAGGCGG	2667	
Qy	2341	TGGACAGCTCCTGGGATGATTATGACCAT	2400	
Db	2668	TGGACAGCTCCTGGGATGATTATGACCAT	2727	
Qy	2401	AGTACAAGTATTTCTGATCTCAGAGACA	2460	
Db	2728	AGTACAAGTATTTCTGATCTCAGAGACA	2787	
Qy	2461	GCTCTCATCCAAAAGAACCACTCTGAG	2520	
Db	2788	GCTCTCATCCAAAAGAACCACTCTGAG	2847	
Qy	2521	ACTTTTGAAAATGGCACAGATCTTTTCA	2580	
Db	2848	ACTTTTGAAAATGGCACAGATCTTTTCA	2907	
Qy	2581	AAATCAGAAATATCCAACTGACAGATCT	2640	
Db	2908	AAATCAGAAATATCCAACTGACAGATCT	2967	
Qy	2641	GAGACACCTAGTCCTGATGAAACGTCG	2700	
Db	2968	GAGACACCTAGTCCTGATGAAACGTCG	3027	
Qy	2701	ATTCTGTGCATTTCATTTTAAAAATAT	2760	
Db	3028	ATTCTGTGCATTTCATTTTAAAAATAT	3087	
Qy	2761	ATAGCTTAGGGCTGAATTTTGTACAGATA	2812	
Db	3088	ATAGCTTAGGGCTGAATTTTGTACAGATA	3139	

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 09:47:01 ; Search time 93.6125 Seconds  
(without alignments)  
12778.822 Million cell updates/sec

Title: US-09-049-696-19  
Perfect score: 1683  
Sequence: 1 AACAAAGTGGTCCATCATC.....AAATGCTAAACAACCTGGGTA 1683

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

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Total number of hits satisfying chosen parameters: 1649014

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Maximum Match 100%  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1676.6	99.6	3007	3	US-09-193-562D-27
2	1676.6	99.6	3007	4	US-10-055-412B-27
3	1512	83.8	1512	4	US-09-016-434-850
4	1467.4	87.2	2745	4	US-09-623-624-5
5	1467.4	87.2	2745	4	US-10-270-595-5
6	942.6	56.0	2931	4	US-09-623-624-1
7	942.6	56.0	2931	4	US-10-270-595-1
8	790.8	47.0	878	1	US-08-463-667-8
9	790.8	47.0	878	3	US-09-224-110-8
10	790.8	47.0	878	5	PCT-US95-07289-8
11	673.8	40.0	3043	3	US-09-049-698-16
12	673.8	40.0	3181	3	US-09-049-698-18
13	441.4	26.2	1081	4	US-09-016-434-928
14	441.4	26.2	1399	3	US-09-043-698-17
15	414.4	24.6	3317	3	US-09-193-562D-1
16	414.4	24.6	3317	4	US-10-055-412B-1
17	398.8	23.7	3022	3	US-09-193-562D-33
18	398.8	23.7	3022	4	US-10-055-412B-33
19	368.2	21.9	3418	3	US-09-193-562D-29
20	368.2	21.9	3418	4	US-10-055-412B-29
21	304	18.1	2784	4	US-09-643-597-168
22	304	18.1	2784	4	US-09-480-884A-168
23	304	18.1	2784	4	US-09-542-615A-168
24	304	18.1	2784	4	US-09-606-421B-168
25	304	18.1	2784	4	US-09-466-396A-168
26	304	18.1	2784	4	US-09-476-496A-168
27	304	18.1	2784	4	US-09-630-940B-168

28	301.6	17.9	2773	4	US-09-643-597-358	Sequence 358, App
29	301.6	17.9	2773	4	US-09-630-940B-358	Sequence 358, App
30	301.6	17.9	3156	4	US-09-919-172-86	Sequence 86, Appli
31	301.6	17.9	3190	4	US-09-623-624-3	Sequence 3, Appli
32	301.6	17.9	3190	4	US-10-270-595-3	Sequence 3, Appli
33	301.6	17.9	3951	4	US-09-643-597-160	Sequence 160, App
34	301.6	17.9	3951	4	US-09-480-884A-160	Sequence 160, App
35	301.6	17.9	3951	4	US-09-542-615A-160	Sequence 160, App
36	301.6	17.9	3951	4	US-09-606-421B-160	Sequence 160, App
37	301.6	17.9	3951	4	US-09-221-107-160	Sequence 160, App
38	301.6	17.9	3951	4	US-09-466-396A-160	Sequence 160, App
39	301.6	17.9	3951	4	US-09-476-496A-160	Sequence 160, App
40	301.6	17.9	3951	4	US-09-630-940B-160	Sequence 160, App
41	301.6	17.9	8031	4	US-09-643-597-254	Sequence 254, App
42	301.6	17.9	8031	4	US-09-480-884A-254	Sequence 254, App
43	301.6	17.9	8031	4	US-09-542-615A-254	Sequence 254, App
44	301.6	17.9	8031	4	US-09-606-421B-254	Sequence 254, App
45	301.6	17.9	8031	4	US-09-476-496A-254	Sequence 254, App

## ALIGNMENTS

## RESULT 1

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857

; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27

; LENGTH: 3007  
; TYPE: DNA

; ORGANISM: Homo sapiens  
US-09-193-562D-27

Query Match	99.6%;	Score 1676.6;	DB 3;	Length 3007;
Best Local Similarity	99.8%;	Pred. No. 0;		
Matches 1679;	Conservative	0;	Mismatches 4;	Indels 0; Gaps 0;
Qy	1	AACAAAGTGGTCCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	60	
Db	1323	AACAAAGTGGTCCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	1382	
Qy	61	AGGAGCTCTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACA	120	
Db	1383	AGGAGCTCTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACA	1442	
Qy	121	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCTCAGCCCT	180	
Db	1443	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCTCAGCCCT	1502	
Qy	181	CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCAGCAGTGAATGAATGGCAG	240	
Db	1503	CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCAGCAGTGAATGAATGGCAG	1562	
Qy	241	TGATCGTGGACAGCAGCCGTGGAAAGGACACTTTTGTCTTATCACCCTGGACACGAGC	300	
Db	1563	TGATCGTGGACAGCAGCCGTGGAAAGGACACTTTTGTCTTATCACCCTGGACACGAGC	1622	
Qy	301	CTCCCCAAATCTTCTCTGGGATCCCAAGTGGACAGAGCAAGGTTGTTGTAGTGACA	360	
Db	1623	CTCCCCAAATCTTCTCTGGGATCCCAAGTGGACAGAGCAAGGTTGTTGTAGTGACA	1682	
Qy	361	AAACACCAAAATGGCCCTACTCTCAATCCAGGATTCCTAAGGTTGGCACTTGGAAAT	420	

Db	1683	AAAAACACAAATGGCCCTACCTCCAAATCCAGGCAATGCTAAGGTTGGACCTTGGAAAT	1742
Qy	421	ACAGTCTGCAAGCAAGCTCACAAACCTTTGACCCCTGACTGTCAAGTCCCGTGGTCCAATG	480
Db	1743	ACAGTCTGCAAGCAAGCTCACAAACCTTTGACCCCTGACTGTCAAGTCCCGTGGTCCAATG	1802
Qy	481	CTACCCCTGCCTCCAAATTCAGTGACTTCCAAACGAAACAGACACACGCAAAATTCGCCCA	540
Db	1803	CTACCCCTGCCTCCAAATTCAGTGACTTCCAAACGAAACAGACACACGCAAAATTCGCCCA	1862
Qy	541	GCCTCTCGTGTAGTTATGCAATATTTGCGCAAGGAGCCTCCCAATTTCTCAGGGCCAGTG	600
Db	1863	GCCTCTCGTGTAGTTATGCAATATTTGCGCAAGGAGCCTCCCAATTTCTCAGGGCCAGTG	1922
Qy	601	TCACAGCCCTGATTTGAATCAGTGAATGGAAACACAGTTACCTTGGAACTACTGGATAATG	660
Db	1923	TCACAGCCCTGATTTGAATCAGTGAATGGAAACACAGTTACCTTGGAACTACTGGATAATG	1982
Qy	661	GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATG	720
Db	1983	GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATG	2042
Qy	721	ACACGAATGTAGATACAGTGAATGAATGGAGTGGGCTCTGGAGGAGTTAACGCGACGACAG	780
Db	2043	ACACGAATGTAGATACAGTGAATGAATGGAGTGGGCTCTGGAGGAGTTAACGCGACGACAG	2102
Qy	781	GGAGAGTGATACCCACGACAGTGGAGCACTGTACATACCTGGCTGGATTTGAGATGATG	840
Db	2103	GGAGAGTGATACCCACGACAGTGGAGCACTGTACATACCTGGCTGGATTTGAGATGATG	2162
Qy	841	AAATACAATGGAAATCACCAAGACCTGAAATTAATGAAGATGATTTCAACACAAGCAAG	900
Db	2163	AAATACAATGGAAATCACCAAGACCTGAAATTAATGAAGATGATTTCAACACAAGCAAG	2222
Qy	901	TGTGTTTCAGCAACATCTCCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCCAAATGCTC	960
Db	2223	TGTGTTTCAGCAACATCTCCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCCAAATGCTC	2282
Qy	961	CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGGGGGAAATTCACGGGG	1020
Db	2283	CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGGGGGAAATTCACGGGG	2342
Qy	1021	GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAATGACCATGGAACAGCTC	1080
Db	2343	GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAATGACCATGGAACAGCTC	2402
Qy	1081	ACAAATATATCATTCGAATAAGTACAAAGTATTTCTTGATCTCAGAGACAAGTTCAATGAAT	1140
Db	2403	ACAAATATATCATTCGAATAAGTACAAAGTATTTCTTGATCTCAGAGACAAGTTCAATGAAT	2462
Qy	1141	CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCACTCTGAGGAAGTCTTTT	1200
Db	2463	CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCACTCTGAGGAAGTCTTTT	2522
Qy	1201	TGTTTAAACAGGAACAAATTTCTGAAATGSCACAGATCTTTTCAATGCTATTTCAGG	1260
Db	2523	TGTTTAAACAGGAACAAATTTCTGAAATGSCACAGATCTTTTCAATGCTATTTCAGG	2582
Qy	1261	CTGTTGATAAGGTGATCTGAAATCAGAAATATCCAACTTTCAGAGTATCTTTGTTTA	1320
Db	2583	CTGTTGATAAGGTGATCTGAAATCAGAAATATCCAACTTTCAGAGTATCTTTGTTTA	2642
Qy	1321	TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTGTATGAACGCTCTGCTCTTGTCTTA	1380
Db	2643	TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTGTATGAACGCTCTGCTCTTGTCTTA	2702
Qy	1381	ATATTTCATCAACAGCACCATTCTCTGGCATTTCACATTTTAAATTAATGTGGAGTGGGA	1440
Db	2703	ATATTTCATCAACAGCACCATTCTCTGGCATTTCACATTTTAAATTAATGTGGAGTGGGA	2762
Qy	1441	TAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAA	1500
Db	2763	TAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAATTTTGTGCAGATAAATAAATAA	2822

RESULT 2

US-10-055-412B-27

Sequence 27, Application US/10055412B

Patent No. 692939

GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.

TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

FILE REFERENCE: 18617.0058

CURRENT APPLICATION NUMBER: US/10/055,412B

CURRENT FILING DATE: 2001-10-29

PRIOR APPLICATION NUMBER: US/09/193,562

PRIOR FILING DATE: 1998-11-17

PRIOR APPLICATION NUMBER: US/60/065,922

PRIOR FILING DATE: 1997-11-17

NUMBER OF SEQ ID NOS: 47

SEQ ID NO 27

LENGTH: 3007

TYPE: DNA

ORGANISM: Homo sapiens

US-10-055-412B-27

Query Match 99.6%; Score 1676.6; DB 4; Length 3007;

Best Local Similarity 99.8%; Pred. No. 0;

Matches 1679; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	1	AACAAAGTGTGGTCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	60
Db	1323	AACAAAGTGTGGTCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAACTAG	1382
Qy	61	AGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA	120
Db	1383	AGAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA	1442
Qy	121	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT	180
Db	1443	ATGGCTCATTTGATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT	1502
Qy	181	CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGAATGGACAG	240
Db	1503	CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGAATGGACAG	1562
Qy	241	TGATCTGGACAGACCGTGGGAAAGACACTTTTGTCTTATCACCCTGGACACGACG	300
Db	1563	TGATCTGGACAGACCGTGGGAAAGACACTTTTGTCTTATCACCCTGGACACGACG	1622
Qy	301	CTCCCCAAATCTTCTCTGGGATCCCAAGTGGACAGAAAGAGTGGCTTTGTAGTGGACA	360
Db	1623	CTCCCCAAATCTTCTCTGGGATCCCAAGTGGACAGAAAGAGTGGCTTTGTAGTGGACA	1682
Qy	361	AAACACCAAAATGCGCTTACTCTCAAAATCCAGGCAATGCTAAGTTGGCACTTGGAAAT	420
Db	1683	AAACACCAAAATGCGCTTACTCTCAAAATCCAGGCAATGCTAAGTTGGCACTTGGAAAT	1742
Qy	421	ACAGTCTGCAAGCAAGCTCACAAACCTTTGACCCCTGACTGTACAGTCCCGTGGTCCAATG	480

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Db 1743 ACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTACGTCCTCGTCCCAATG 1802
QY CTACCTCGCTCCTCAATTCAGTGACTTCCAAAACGAAACAGACACACAGCAAAATCCCA 540
Db 1803 CTACCTCGCTCCTCAATTCAGTGACTTCCAAAACGAAACAGACACACAGCAAAATCCCA 1862
QY GGCCTCTCGTGTATGTTATGCAAAATATTCGCCAAGGAGCCTCCCAATTCCTCAGGGCCAGTG 600
Db 1863 GGCCTCTCGTGTATGTTATGCAAAATATTCGCCAAGGAGCCTCCCAATTCCTCAGGGCCAGTG 1922
QY TCACAGCCCTGATGTAATCAGTGAATGGAATAAGCAAGTACCTTGGAATCTACTGGATAATG 660
Db 1923 TCACAGCCCTGATGTAATCAGTGAATGGAATAAGCAAGTACCTTGGAATCTACTGGATAATG 1982
QY GAGCAGTGTCTGATGCTACTTAAGATGACGCTGTCTACTCAAGTATTTCACTCACTTATG 720
Db 1983 GAGCAGTGTCTGATGCTACTTAAGATGACGCTGTCTACTCAAGTATTTCACTCACTTATG 2042
QY ACACGAATGGTAGATACAGTGTAAAGTTCGGGGCTCTGGGAGGAGTTAAACGACCCAGAC 780
Db 2043 ACACGAATGGTAGATACAGTGTAAAGTTCGGGGCTCTGGGAGGAGTTAAACGACCCAGAC 2102
QY GGAGGTGATACCCAGCAGAGTGAGCACTGTATACATCCTGGCTGGATTGAGATGATG 840
Db 2103 GGAGGTGATACCCAGCAGAGTGAGCACTGTATACATCCTGGCTGGATTGAGATGATG 2162
QY AAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGGATGATGTTCAACACAGCAAG 900
Db 2163 AAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGGATGATGTTCAACACAGCAAG 2222
QY TGTGTTTCACAGCAACATCTCGGAGGCTCATTTGTTGGCTTCTGATGTCCTCCAAATGCTC 960
Db 2223 TGTGTTTCACAGCAACATCTCGGAGGCTCATTTGTTGGCTTCTGATGTCCTCCAAATGCTC 2282
QY CCATACCTGATCTCTCCACCTGGCCAAATCAACGACCTGAAAGCGGAAATTCACGGGG 1020
Db 2283 CCATACCTGATCTCTCCACCTGGCCAAATCAACGACCTGAAAGCGGAAATTCACGGGG 2342
QY GCAGTCTCATTAATCTGACTTGACAGTCTCGGGAGTCTCGGGAGTATGATGACCAAGCTC 1080
Db 2343 GCAGTCTCATTAATCTGACTTGACAGTCTCGGGAGTCTCGGGAGTATGATGACCAAGCTC 2402
QY ACAAGTATATCATTCGAATGAATGACAGTATCTGATCTCAGACACAGTTCGAATGAAT 1140
Db 2403 ACAAGTATATCATTCGAATGAATGACAGTATCTGATCTCAGACACAGTTCGAATGAAT 2462
QY CTCTTCAAGTGATATCTGCTCTCATCCCAAGGAGCACTCTGAGGAAGTCTTTT 1200
Db 2463 CTCTTCAAGTGATATCTGCTCTCATCCCAAGGAGCACTCTGAGGAAGTCTTTT 2522
QY TGTGTTAAACCAAGCAATCTTTTGAATGAGCAAGTCTTTTCAATGCTATTCAGG 1260
Db 2523 TGTGTTAAACCAAGCAATCTTTTGAATGAGCAAGTCTTTTCAATGCTATTCAGG 2582
QY CTGTTGATAAGTGCATCTGAAATCAGAAATATCAAAATGCGACAGTATCTTTGTTTA 1320
Db 2583 CTGTTGATAAGTGCATCTGAAATCAGAAATATCAAAATGCGACAGTATCTTTGTTTA 2642
QY TTCTTCCACAGACTCGGCGACAGACACCTGATGTCCTGATGAAACGCTGCTGCTTCTCTTA 1380
Db 2643 TTCTTCCACAGACTCGGCGACAGACACCTGATGTCCTGATGAAACGCTGCTGCTTCTCTTA 2702
QY ATATTATATCAACAGCACCATTCTCTGCAATTCACATTTTAAATTAATGAGGAAGTGA 1440
Db 2703 ATATTATATCAACAGCACCATTCTCTGCAATTCACATTTTAAATTAATGAGGAAGTGA 2762
QY TAGGAACTCGAGCTGTCATAGCTAGGGCTGAATTTTGTGAGATAAATAAATAA 1500
Db 2763 TAGGAACTCGAGCTGTCATAGCTAGGGCTGAATTTTGTGAGATAAATAAATAA 2822
QY TCATTCATCTTTTGTGATTAATAAATTTTCTAAATGATTTTGTAGACTTCTCTGATG 1560

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Db 2823 TCATTCATCTTTTGTGATTAATAAATTTTAAAAATGATTTTAAATTCCTGTAGG 2882
QY GGGCGATATCTAAATGATATAGTACATTTTATATCTAAATGATTTTCTGTAGGGGGCGAT 1620
Db 2883 GGGCGATATCTAAATGATATAGTACATTTTATATCTAAATGATTTTCTGTAGGGGGCGAT 2942
QY ATACTAAATGATTTTGTAGACTTCTGTAGGGGGCGATAAATGATTTTAAATGATTTTCTAAACAACTGG 1680
Db 2943 ATACTAAATGATTTTGTAGACTTCTGTAGGGGGCGATAAATGATTTTAAATGATTTTCTAAACAACTGG 3002
QY 1681 GTA 1683
Db 3003 GGA 3005

RESULT 3
US-09-016-434-850
; Sequence 850, Application US/09016434
; Patent No. 8500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 850:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1512 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: COLN001
; CLONE: 608819
US-09-016-434-850

Query Match 89.8%; Score 1512; DB 4; Length 1512;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1512; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACAAAGTGTGCCATCATCCACAGTCGCTTTTGGGGCCCTCTGCAGCTCAAGACTAG 60
Db 1 AACAAAGTGTGCCATCATCCACAGTCGCTTTTGGGGCCCTCTGCAGCTCAAGACTAG 60
QY 61 AGGAGCTGTCCAAATGACAGGAGTTTACAGACATATGTTTACAGATCAAGTTCAGAAC 120

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Wed Oct 20 10:24:48 2004

Db 61 AGGAGCTCTCCAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGACA 120  
Qy 121 ATGGCTCATTCATGCTTTTGGGCTTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Db 121 ATGGCTCATTCATGCTTTTGGGCTTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Qy 181 CCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGATGACACAG 240  
Db 181 CCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAGTGGATGATGACACAG 240  
Qy 241 TGATGTGACAGCAGCCGTGGAAAGGACACATTTGTTCTTATCACCTGGACAAAGCAGC 300  
Db 241 TGATGTGACAGCAGCCGTGGAAAGGACACATTTGTTCTTATCACCTGGACAAAGCAGC 300  
Qy 301 CTCCTCCAAATCTCTCTCGGATCCAGTGGACAGCAAGAGTGGCTTTTGTAGTGGACA 360  
Db 301 CTCCTCCAAATCTCTCTCGGATCCAGTGGACAGCAAGAGTGGCTTTTGTAGTGGACA 360  
Qy 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGACCTTGGAAAT 420  
Db 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGACCTTGGAAAT 420  
Qy 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACGTCCCGTGGCTCCAATG 480  
Db 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACGTCCCGTGGCTCCAATG 480  
Qy 481 CTACCTGCTCCAAATTTACAGTACCTTCCAAACGCAAGGACACAGCAAAATTTCCCA 540  
Db 481 CTACCTGCTCCAAATTTACAGTACCTTCCAAACGCAAGGACACAGCAAAATTTCCCA 540  
Qy 541 GCCTCTGGTGTATGCAAAATTTGCCAAGAGGCTCCCAATTTCTCAGGCGCAGTG 600  
Db 541 GCCTCTGGTGTATGCAAAATTTGCCAAGAGGCTCCCAATTTCTCAGGCGCAGTG 600  
Qy 601 TCAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 660  
Db 601 TCAGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 660  
Qy 661 GAGCAGTGTGATGCTACTAAGATGACGCTGTCTACTCAAGTATTTTCAAACTTATG 720  
Db 661 GAGCAGTGTGATGCTACTAAGATGACGCTGTCTACTCAAGTATTTTCAAACTTATG 720  
Qy 721 ACAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 780  
Db 721 ACAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 780  
Qy 781 GGAGAGTATACCCAGCAGAGTGGACCTGTATACCTGGCTGGATGATGATGATGATGATG 840  
Db 781 GGAGAGTATACCCAGCAGAGTGGACCTGTATACCTGGCTGGATGATGATGATGATGATG 840  
Qy 841 AAATACATGGAATCCCAAGACCTGAAATTAATTAAGATGATGATGATGATGATGATGATG 900  
Db 841 AAATACATGGAATCCCAAGACCTGAAATTAATTAAGATGATGATGATGATGATGATGATG 900  
Qy 901 TGTTTTCAGAGAACATCTCTGGAGGCTCATTTTGGCTTCTGATGCTCCCAATGCTC 960  
Db 901 TGTTTTCAGAGAACATCTCTGGAGGCTCATTTTGGCTTCTGATGCTCCCAATGCTC 960  
Qy 961 CCATACCTGATCTCTCCCTGCTCCCAATCAGCAGCTGAGGCGGAAATTCACGGGG 1020  
Db 961 CCATACCTGATCTCTCCCTGCTCCCAATCAGCAGCTGAGGCGGAAATTCACGGGG 1020  
Qy 1021 GCAGTCTCATTAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1080  
Db 1021 GCAGTCTCATTAATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1080  
Qy 1081 ACAAGTATATCATTCGAATTAAGTACAGTATTTCTGATCTCAGAGCAAGTTCATGAT 1140  
Db 1081 ACAAGTATATCATTCGAATTAAGTACAGTATTTCTGATCTCAGAGCAAGTTCATGAT 1140  
Qy 1141 CTCCTCAAGTATATCTACTGCTCTCATCTCCAAAGGAGCCTGAGGAGTCTTTT 1200  
Db 1141 CTCCTCAAGTATATCTACTGCTCTCATCTCCAAAGGAGCCTGAGGAGTCTTTT 1200

Qy 1201 TGTTTAAACAGAAAAACATTACTTTTGAATAATGGCAGATCTTTTTCATTGCTATTTCAGG 1260  
Db 1201 TGTTTAAACAGAAAAACATTACTTTTGAATAATGGCAGATCTTTTTCATTGCTATTTCAGG 1260  
Qy 1261 CTGTTGATAAGTTCGATCTGAATCAGAAATATCCAAATTCGACGAGTATCTTTGTTT 1320  
Db 1261 CTGTTGATAAGTTCGATCTGAATCAGAAATATCCAAATTCGACGAGTATCTTTGTTT 1320  
Qy 1321 TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTGATGAAACGCTCTGCTCTTGTCTTA 1380  
Db 1321 TTCTTCCACAGACTCCGCGCAGAGACACCTAGTCTGATGAAACGCTCTGCTCTTGTCTTA 1380  
Qy 1381 ATATTCAATCAACAGCACCATTCTCTGCAATTCACATTTTAAATTTATGTGAAGTGA 1440  
Db 1381 ATATTCAATCAACAGCACCATTCTCTGCAATTCACATTTTAAATTTATGTGAAGTGA 1440  
Qy 1441 TAGGAGAACTGAGCTGTCAATAGCTAGGCTGAATTTTGTACAGATAAAATAATAA 1500  
Db 1441 TAGGAGAACTGAGCTGTCAATAGCTAGGCTGAATTTTGTACAGATAAAATAATAA 1500  
Qy 1501 TCATTTCATCCTT 1512  
Db 1501 TCATTTCATCCTT 1512

RESULT 4

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 2745  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2742)  
US-09-623-624-5

Query Match 87.2%; Score 1467.4; DB 4; Length 2745;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1468; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AACAAAGTGGTCCCATCATCCACAGTGGCTTTGGGGCCCTCTGCGAGCTCAAGAACTAG 60  
Db 1277 AACAAAGTGGTCCCATCATCCACAGTGGCTTTGGGGCCCTCTGCGAGCTCAAGAACTAG 1336

QY 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 120  
Db 1337 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 1396

QY 121 ATGGCCCTCATGTATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Db 1397 ATGGCCCTCATGTATGCTTTTGGGGCCCTTTTATCAGGAAATGGAGCTGTCTCTCAGCGCT 1456

QY 181 CCATCCAGCTGTGAGTAAGGATTAACCTTCCAGAACAGCCAGTGGATGAATGGGCACAG 240  
Db 1457 CCATCCAGCTGTGAGTAAGGATTAACCTTCCAGAACAGCCAGTGGATGAATGGGCACAG 1516

QY 241 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTTGTCTTATCACCTGGACACCGCAGC 300  
Db 1517 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTTGTCTTATCACCTGGACACCGCAGC 1576

QY 301 CTCCCAATCTCTCTGCGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGACA 360  
Db 1577 CTCCCAATCTCTCTGCGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGACA 1636

QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 420  
Db 1637 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 1696

QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACGTCCCGTGGCTCAATG 480  
Db 1697 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCACGTCCCGTGGCTCAATG 1756

QY 481 CTACCTGCTCCAAATACAGTGAATTCACAAACGAAACAGGACACAGCAAAATCCCA 540  
Db 1757 CTACCTGCTCCAAATACAGTGAATTCACAAACGAAACAGGACACAGCAAAATCCCA 1816

QY 541 GCCTCTGTGTATGCAATATTCGCAAGGAGCTCCCAATCTCAGGCGCAGTG 600  
Db 1817 GCCTCTGTGTATGCAATATTCGCAAGGAGCTCCCAATCTCAGGCGCAGTG 1876

QY 601 TCACAGCCCTGATTAAGTCAAGTGAATGAAACAGTTACTTGGAACTACTGGATAAG 660  
Db 1877 TCACAGCCCTGATTAAGTCAAGTGAATGAAACAGTTACTTGGAACTACTGGATAAG 1936

QY 661 GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATG 720  
Db 1937 GAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATG 1996

QY 721 ACACGAATGGTATACAGTGTAAAGTCCGGCTCTGGAGAGTTAAGCAGGACAG 780  
Db 1997 ACACGAATGGTATACAGTGTAAAGTCCGGCTCTGGAGAGTTAAGCAGGACAG 2056

QY 781 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATGAGATGATG 840  
Db 2057 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATGAGATGATG 2116

QY 841 AAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGTATGTTCAACACAGCAAG 900  
Db 2117 AAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGTATGTTCAACACAGCAAG 2176

QY 901 TGTGTTTCAGCAGACATCTCGGAGGCTATTTGTGGCTTCTGATGCCAAATGCTC 960  
Db 2177 TGTGTTTCAGCAGACATCTCGGAGGCTATTTGTGGCTTCTGATGCCAAATGCTC 2236

QY 961 CCATACCTGATCTCTTCCACTGCGCAATCACCAGCTCAAGCGGAAATTCAGGG 1020  
Db 2237 CCATACCTGATCTCTTCCACTGCGCAATCACCAGCTCAAGCGGAAATTCAGGG 2296

QY 1021 CGAGTCTCAATTAATCTGACTTGGACAGCTCTGGGGATGATTAATGACCATGGAACAGCTC 1080

## RESULT 5

US-10-270-595-5

; Sequence 5, Application US/10270595

; Patent No. 6716603

; GENERAL INFORMATION:

; APPLICANT: Megalin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

; FILE OF INVENTION: Disorders

; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/10/270,595

; CURRENT FILING DATE: 2002-10-16

; PRIOR APPLICATION NUMBER: US/09/623,624

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,472

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,473

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/702,105

; PRIOR FILING DATE: 1996-08-23

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 5

; LENGTH: 2745

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS



; LOCATION: (1) .. (2742)									
US-10-270-595-5									
Query Match									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 1468; Conservative 0; Mismatches 1; Indels 0; Gaps 0;									
QY	1	ACAAAGTGGTGCATATCCACACAGTGCCTTTGGGGCCCTCTGCAGTCAAGACTAG	60						
DB	1277	ACAAAGTGGTGCATATCCACACAGTGCCTTTGGGGCCCTCTGCAGTCAAGACTAG	1336						
QY	61	AGAGCTGTCGCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC	120						
DB	1337	AGAGCTGTCGCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC	1396						
QY	121	ATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGTGTCTCTCAGCGT	180						
DB	1397	ATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGTGTCTCTCAGCGT	1456						
QY	181	CCATCAGCTTGAGAGTAAGGATTAACCTTCAGAACAGCCAGTGGATGAATGGCACAG	240						
DB	1457	CCATCAGCTTGAGAGTAAGGATTAACCTTCAGAACAGCCAGTGGATGAATGGCACAG	1516						
QY	241	TGATCGTGGACACACCGTGGGAAAGACACTTTTCTTATCAGCTGGACAAACGACG	300						
DB	1517	TGATCGTGGACACACCGTGGGAAAGACACTTTTCTTATCAGCTGGACAAACGACG	1576						
QY	301	CTCCCCAAATCCTTCTCTGGATGCCAGTGGACAGAAAGTGGCTTTGTAGTGACAC	360						
DB	1577	CTCCCCAAATCCTTCTCTGGATGCCAGTGGACAGAAAGTGGCTTTGTAGTGACAC	1636						
QY	361	AAAACACCAAAATGGCTTACTCCAAATCCAGGCATTTGCTTAAGTGGACATTTGGAAT	420						
DB	1637	AAAACACCAAAATGGCTTACTCCAAATCCAGGCATTTGCTTAAGTGGACATTTGGAAT	1696						
QY	421	ACAGTCTGCAAGCAAGCTTCAAAACCTTGACCTGACTGTCACTCCCGTGGCTCCAAATG	480						
DB	1697	ACAGTCTGCAAGCAAGCTTCAAAACCTTGACCTGACTGTCACTCCCGTGGCTCCAAATG	1756						
QY	481	CTACCTGCTCCCAATTTACAGTGAATTCCTCAAAACGAAAGGACACAGCAAAATTTCCCA	540						
DB	1757	CTACCTGCTCCCAATTTACAGTGAATTCCTCAAAACGAAAGGACACAGCAAAATTTCCCA	1816						
QY	541	GCCCTCTGGTGTATGTAATTTTCCCAAGAGGCTCCCAATTTCTCAGGGCCAGTG	600						
DB	1817	GCCCTCTGGTGTATGTAATTTTCCCAAGAGGCTCCCAATTTCTCAGGGCCAGTG	1876						
QY	601	TCACAGCCCTGATTGAATCAGTGAATGGAATAACAGTTACTTGGAACTACTGGATAATG	660						
DB	1877	TCACAGCCCTGATTGAATCAGTGAATGGAATAACAGTTACTTGGAACTACTGGATAATG	1936						
QY	661	GAGCAGTGTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATG	720						
DB	1937	GAGCAGTGTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATG	1996						
QY	721	ACAGAAATGTTAGTACAGTGAATGAGTGGGCTCTGGAGGAGTTAAACGACCCAGAC	780						
DB	1997	ACAGAAATGTTAGTACAGTGAATGAGTGGGCTCTGGAGGAGTTAAACGACCCAGAC	2056						
QY	781	GGAGAGTATACCCAGCAGAGTGGACCTGTATACATCTGGCTGGATTCAGAAATGATG	840						
DB	2057	GGAGAGTATACCCAGCAGAGTGGACCTGTATACATCTGGCTGGATTCAGAAATGATG	2116						
QY	841	AAATACAAATGAATTCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG	900						
DB	2117	AAATACAAATGAATTCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG	2176						
QY	901	TGTGTTTCAGCAGACATCTCCGAGGCTCATTTTGTGCTTCTGATCTCCCAATGCTC	960						
DB	2177	TGTGTTTCAGCAGACATCTCCGAGGCTCATTTTGTGCTTCTGATCTCCCAATGCTC	2236						
QY	961	CCATACCTGATCTCTTCCCACTCCGCAAAATCAGCAGCTGAGCGGGAATTTCCGGGG	1020						

RESULT 6  
US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-09-623-624-1

Query Match 56.0%; Score 942.6; DB 4; Length 2931;  
Best Local Similarity 76.9%; Pred. No. 4.4e-286;  
Matches 1212; Conservative 0; Mismatches 339; Indels 26; Gaps 4;

QY 1 AACAAAGTGGTGCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1287 AGCAGAGCGGGCCATCATCCATACAGTGGCCCTGGAGCCGGCTGCGCTAAAGAGCTTG 1346  
QY 61 AGGAGCTGTCCAAATGACAGAGAGTTTACAGACATATGCTTTCAGATCAAGTTCAGAA 120  
Db 1347 AGCAGCTGTCCAAATGACAGAGAGCTTTCAGACATATCTCTCGATCAGGTTTCAAGAA 1406  
QY 121 ATGGCCCTCAITGATGCTTTTGGGGCCCTTTCATCAGGAAATGAGCTGTCTCTCAGGCT 180  
Db 1407 ATGGTCTTGTGATGCTTTTCGAGCACTCTCCTCAGGAAATGCGGCGATCGCTCAGCACT 1466  
QY 181 CCATCCAGCTTGAGATTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1467 CCATCCAGCTGGAGAGCAGGGAGTTAATCTCCAGATTAACCAATGATGATGGCTCAG 1526  
QY 241 TGATCGTGGAGACAGCGTGGGAAAGACACTTTTCTTATATCACCCTGGACAAACGAGC 300  
Db 1527 TGATCGTGGAGACAGCGTGGGAAAGACACTTTTCTTATCACCCTGGACAAACGATC 1586  
QY 301 CTCGCCAAATCTCTCTGGATCCAGTCCAGTCCAGGCAATGCTAAGGTGGCACTTGGAAAT 360  
Db 1587 CTCCTACATATTATCTGGATCCAGCGGAGTGGAAACAAATGTTTTATCTAGACA 1646  
QY 361 AAAAAACCAAAATGGCTACTCCAAATCCAGGCAATGCTAAGGTGGCACTTGGAAAT 420  
Db 1647 CAACCACTAAGTGGGCTACTCCAAATCCAGGCAATGCTAAGGTGGCTTTGGAAAT 1706  
QY 421 ACAGTCTGACAGCAAGCTCACAACCTTGACCCCTGACTGCTGACGTCCTGCTGCTGCTCAATG 480  
Db 1707 ACAGCAATCAAGCGAGCTCAGACACTCTCACCTTGACTGCTGACCTCCCGTGGCAGCAAGT 1766  
QY 481 CTACCTGCTCTCAATTTACAGTGACTTCCAAACGAAACAGGACACAGCAAAATTTCCCA 540  
Db 1767 CTACAGTCTCTTATACAGTGACCCCGGTAGTGAATAAGAACACAGGGAAATTTCCCA 1826  
QY 541 GCCCTCTGGTAGTTTATGCAATATTTCGCAAGGAGCCCTCCCAATTTCTCAGGCGCAGTG 600  
Db 1827 GCCCTGTAAAGTGTATGCAAGCAATTCGCAAGGAGCCCTCGCTATTCTCAGGCGCAGTG 1886  
QY 601 TCACAGCCTGATTAATGATCAGTGAATGGAACAGTACCTTGGAACTACTGGATAATG 660  
Db 1887 TCACAGCCTGATTAATGATCAGTGAATGGAACAGTACCTTGGAACTACTGGATAATG 1946  
QY 661 GAGCAGGTGCTGATGCTACTAAGGATGAGGCTGCTCTCAGAGTATTTCACAACTTATG 720  
Db 1947 GAGCAGGTGCTGATGCTGCAACAGATGATGCTGCTACTCAAGGTTTTTACAGCTTTG 2006  
QY 721 ACAGAAATGGTATGATGATGTAAGTGTAAAGTGGGGCTCTGGAGAGCTTAAACGAGCCAGC 780  
Db 2007 ATGCAAAATGGTATGATGATGTAAGTGTAAAGTGGGGCTCTGGAGAGCTTAAACGAGCCAGC 2066  
QY 781 GGAGAGTATACCCAGCAGAGTGAGCAGCTGTATACATCTGGCTGGATTCAGATGATG 840  
Db 2067 AGAGAGAGCAGCTCCGAGAACAGAGCAATGTATAGATGCTGGATTCAGATGATG 2126  
QY 841 AAATCAATGGAATCCACCAAGACCTGAAATTAATAGATGATGTTCAACACAGCAAG 900  
Db 2127 AAGTAAGATGAACCCACAGCTCTCTGAACTA-----GTTATGTTTCAAGACAGCAGC 2180

QY 901 TGTGTTTCAGCAGAACATCTCTGGAGGCTCATTTGTGGCTTCTGATGTC---CAAATG 957  
Db 2181 TGTGTTTCAGCAGAACATCTCTGGAGGCTCATTTGTGGCTTCTGATGTC---CAAATG 957  
QY 958 CTCCCATACCTGATCTCTTCCACCTGCGCAAAATCACCAGCCTGAGGGGGAATTCAG 1017  
Db 2241 CTCCCATCTCTGATCTCTTCCACCTGCGCAAAATCACCAGCCTGAGGGGGAATTCAG 1017  
QY 1018 GGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTTATGACCATGAAACAG 1077  
Db 2301 GGCAGAACCTTGGTGAATCTGAGCTGGAGCGCTCTGGGATGACTTACGACCACGGGAGAG 2360  
QY 1078 CTCAAGATATATCAITTCGAATAAGTACAAGTATCTTGTGATCTCAGAGACAAGTTCAATG 1137  
Db 2361 CTTCCAATCTATCATCCGAATGAGCACCAAGTATCTGTTGATCTCAGGACCACTTCAACA 2420  
QY 1138 AATCTCTTCAAGTGAATCTACTGCTCTCATCTCCCAAGAGGACCACTCTGAGGAAGTCT 1197  
Db 2421 CCTCACTCCAAGTGAACACTACCGCTCTTATCCCAAGAGGCGCAGCTCTGAGGAATCT 2480  
QY 1198 TTTGTTTAAACACAGAAACATTTACTTTTGAATAATGACAGATCTTTTCAATGCTATTC 1257  
Db 2481 TTGAGTTTGAATCTGGAGGCAACACTTTTGAATAATGACAGATATCTTCAATGCTATTC 2540  
QY 1258 AGCTGTTGATAGTCTGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGT 1317  
Db 2541 AGCTGTTGATAGTCTGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGT 2600  
QY 1318 TTATTTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAACGCTGTCCTCTGTC 1377  
Db 2601 TCATCCCGCTCAG-----GAGCGGCCCTTCCGGAAGACTCAACTCCCGCTTGT 2651  
QY 1378 CTAAATATTCATATCAACAGACACCAATTTCTGGCAATTCACATTTTAAATAATTCGGAAGT 1437  
Db 2652 CTGACATCAGCATCAACAGACACCAATTTCTGGCAATTCACATTTTAAATAATTCGGAAGT 2711  
QY 1438 GGATAGAGAACTGCAAGTCTCAATAGCCTAGGCTGAAATTTTGTGAGTAATAATAAT 1497  
Db 2712 GGCTAGGGAATGCAAGTCTGCACTAGGTTTGCACGTAAATTTTTCAGGCAAGTAATCAACC 2771  
QY 1498 AAATCATTCATCTTTTGTGATATAATAATTTTCAATGCTGAAATTTTTCAGGCAAGTAATCAACC 2771  
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QY 1558 AGGGGCGGATATATAA 1574  
Db 2824 AGGGGCGGATATATAA 2840

## RESULT 7

US-10-270-595-1  
; Sequence 1, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23

Wed Oct 20 10:24:48 2004

PRIOR APPLICATION NUMBER: US 08/697,471  
PRIOR FILING DATE: 1996-08-23  
PRIOR APPLICATION NUMBER: US 08/697,472  
PRIOR FILING DATE: 1996-08-23  
PRIOR APPLICATION NUMBER: US 08/697,473  
PRIOR FILING DATE: 1996-08-23  
PRIOR APPLICATION NUMBER: US 08/702,105  
PRIOR FILING DATE: 1996-08-23  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 2931  
TYPE: DNA  
ORGANISM: Mus musculus  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (8) (2746)  
US-10-270-595-1  
Query Match 56.0%; Score 942.6; DB 4; Length 2931;  
Best Local Similarity 76.9%; Pred. No. 4.4e-286;  
Matches 1212; Conservative 0; Mismatches 339; Indels 26; Gaps 4;  
QY 1 AACAAAGTGTGCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1287 AGCAGAGCGGGGCATCATCATACAGTGGCCCTGGGACCGCTGCGCTTAAGAGCTTG 1346  
QY 61 AGCAGCTGTCCAAAATCACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAA 120  
Db 1347 AGCAGCTGTCCAAAATCACAGGAGGCTGCGACATATCTCTCGATCAGGTTTCAAGAA 1406  
QY 121 ATGCGCTCATATGCTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCTCAGCGCT 180  
Db 1407 ATGCTCTGTGCTTTGCGACACTCTCTCAGGAATGCGGCGATCGCTCAGCACT 1466  
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QY 301 CTCGCCAAATCTCTCTCGGATCCCGAGTGACAGAGCAAGTGGCTTTGTAGTGACA 360  
Db 1587 CTCCTCAATATTTATCTGGGATCCCGAGCGAGTGGAAACAAAATGGTTTATCTAGACA 1646  
QY 361 AAAACCCAAATAGCCCTACCTCCAAATCCAGGACATTTGTAAGTTGGCACTTTGGAAAT 420  
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QY 421 ACAGCTGCAAGAGAGCTCAAAACCTTGACCTGACTGTCAAGTCCGCTGGTCCAAATG 480  
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QY 481 CTACCCCTCCCAATTAAGTACTTCCAAAACGAAACAGGACAGCAAGTAATTCGCCCA 540  
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QY 601 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTTACCTTGGAACTACTTGGATATG 660  
Db 1887 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTTACCTTGGAACTACTTGGATATG 1946  
QY 661 GAGCAGGCTGCTGATGCTACTAAGATGACGCTGTCTACTCAGGTTATTCACAACTATG 720  
Db 1947 GAGCAGGCTGCCATGCCCAAGAAATGATGGTGTCTACTCAAGGTTTTTTTACAGCTTTG 2006  
QY 721 ACACGAATGTAGATACAGTGTAAAAGTGGGGCTCTCGGAGGAGTTAACGCGCAGAC 780

Db 2007 ATGCAATGTAGATACAGCGTTAAAAATATGGGCTCTGGAGAGTCACTTCAGACAGAC 2066  
QY 781 GGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAAGATG 840  
Db 2067 AGAGAGCAGCAGCTCGAAGAACAGAGCCATGTACATAGATGCTGGATTGAGGATGGTG 2126  
QY 841 AAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGATGATGTTCAACAACAAGCAAG 900  
Db 2127 AAGTGAAGTGAACCCACCACTCTGAAACTA-----GTTATGTTCAAGACAAGCAGC 2180  
QY 901 TGTGTTTTCAGCAGACATCTCTGGGAGGCTCAATTTGTGGCTTCTGTATGTC---CAAATG 957  
Db 2181 TGTGCTTTCAGCAGCAGCATCTTCAGGGGGATCGTTTGTGGCCACCAATGTTCCCGCAGCAG 2240  
QY 958 CTCCCATACCTGATCTCTTCCCACTGGCCAAATCACCGACCTGAAGGGGAAATTCACG 1017  
Db 2241 CTCCCATCTCTGACCTCTTTCACCTCTGCAATCACTGACCTGAAGGGCAGCATCCAAG 2300  
QY 1018 GGGGAGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATTTATGACCATGGAACAG 1077  
Db 2301 GGCAGAACCTGGTGAATCTGACGTGGACGCTCTGGGATGACTAGCACCGGAGAG 2360  
QY 1078 CTCACAAAGTATATCATTCGAATAAGTACAGTATTTCTGATCTCAGACAGCAAGTCAATG 1137  
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QY 1138 AATCTCTTCAAGTGAATACTACTGCTCTCATCCAAAGGAAGCAAACTCTGAGGAAGTCT 1197  
Db 2421 CCTACCTCCAAAGTGAACACTACCGGCTTATCCCAAGAGGCCAGCTCTGAGGMAATCT 2480  
QY 1198 TTTTGTTTAAACAGAAAACATTTACTTTTGAATAATGGCAGACAGATCTTTTCACTGCTATTC 1257  
Db 2481 TTGAGTTTGAATCTGGAGGCAACACTTTTGGAAATGGCAGACAGATATCTTCACTGCTATTC 2540  
QY 1258 AGGCTGTTGATAGTGCATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGT 1317  
Db 2541 AGGCTGTTGATAGTGCATCTGAAATCAGAAATCTCCAACTTGCACGAGTATCTTTGT 2600  
QY 1318 TTATTCCTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAACCTGCTCTCTGCTGTC 1377  
Db 2601 TCATCCCGCTCAG-----GAGCGGCCCTTCCGAAGACTCAACTCCCGCTTGTGTC 2651  
QY 1378 CTATATTTATATCAACAGACCAATCTCTGGCATTCATTTTAAATTTATGTTGAGT 1437  
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QY 1438 GGATAGAGAACTCAGCTGTCAATAGCTAGGCTGAAATTTTGTGATGATAAATAAAT 1497  
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QY 1498 AAATCATTTCTCTTTTGTATTAATAAATTTTCTAAAAATGATTTTATGACTTCTGCT 1557  
Db 2772 A-----GTCAATCTCTTCTCAGTGGAGAAATTTTCTAAAAATGATTTTATGACTTCTGCT 2823  
QY 1558 AGGGGGGATATACTAA 1574  
Db 2824 AGGGGGGATATAGTAA 2840

RESULT 8  
US-08-469-667-8  
; Sequence 8, Application US/08469667  
; Patent No. 5733748  
; GENERAL INFORMATION:  
; APPLICANT: Yu, Guo-Liang  
; APPLICANT: Rosen, Craig  
; TITLE OF INVENTION: Colon Specific Genes and Proteins  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
; ADDRESSEE: Stewart & Olstein  
; STREET: 6 Becker Farm Road

CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: 06-JUN-1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 878 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2..685  
US-08-469-667-8

Query Match  
Best Local Similarity 47.0%; Score 790.8; DB 1; Length 878;  
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 692 TGCTACTCAAGTATTTTACACAACTATGACACGAAATGGTAGATACAGTGTAAAGTGGG 751  
DB 1 TGCTACTCAAGTATTTTACACAACTATGACACGAAATGGTAGATACAGTGTAAAGTGGG 60  
QY 752 GGCTCTGGGAGAGTTAAACGACGAGAGTGTATACCCAGCAGAGTGGAGCACT 811  
DB 61 GGCTCTGGGAGAGTTAAACGACGAGAGTGTATACCCAGCAGAGTGGAGCACT 120  
QY 812 GTACATACCTGGCTGGATGAGAAATGAAATACATGGAATCCACCAAGACCTGAAT 871  
DB 121 GTACATACCTGGCTGGATGAGAAATGAAATACATGGAATCCACCAAGACCTGAAT 180  
QY 872 TAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAAATCTCGGGAGGCTC 931  
DB 181 TAATAAGGATGATTTCAACACAGCAAGTGTGTTTCAGCAGAAATCTCGGGAGGCTC 240  
QY 932 ATTGTGGCTTCTGATGCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAT 991  
DB 241 ATTGTGGCTTCTGATGCCAAATGCTCCCATACCTGATCTCTTCCCACTGGCCAAT 300  
QY 992 CACCACTGAGGCGGAAATTCAGGGGGAGTCTCATTAATCTGACTTGACAGCTCC 1051  
DB 301 CACCACTGAGGCGGAAATTCAGGGGGAGTCTCATTAATCTGACTTGACAGCTCC 360  
QY 1052 TGGGGATGATATGACCATGGAACAGCTCACAAGTATATCATTCGAATTAAGTACAGTAT 1111  
DB 361 TGGGGATGATATGACCATGGAACAGCTCACAAGTATATCATTCGAATTAAGTACAGTAT 420  
QY 1112 TCTTGATCTCAGACAAAGTTCATGAATCTCTTCAAGTGAATCTGCTCTCATCC 1171  
DB 421 TCTTGATCTCAGACAAAGTTCATGAATCTCTTCAAGTGAATCTGCTCTCATCC 480  
QY 1172 AAAGGAGCACTCTGAGAGTCTTTTGTGTTAAACAGAAACATTTTGAATA 1231  
DB 481 AAAGGAGCACTCTGAGAGTCTTTTGTGTTAAACAGAAACATTTTGAATA 540  
QY 1232 TGGCACAGATCTTTTCATTTGCTATTTCAGGCTGTGTAAGTGGTCTGAAATCAGAAAT 1291

Db 541 TGGCACAGATCTTTTCATTTGCTATTTCAGGCTGTGTAAGTGGTCTGAAATCAGAAAT 600  
QY 1292 ATCCAACTTGCACGAGTATCTTTTATTCTCCACAGACTCCGCCACAGACACCTAG 1351  
DB 601 ATCCAACTTGCACGAGTATCTTTTATTCTCCACAGACTCCGCCACAGACACCTAG 660  
QY 1352 TCTGATGAAAGCTCTGCTCTTGT-CTTAATATTATATCAACAGCACCATTCTCTGGCA 1410  
DB 661 TCTGATGAAAGCTCTGCTCTTGTGCTTAATATTATCAATCAACAGCACCATTCTCTGGCA 720  
QY 1411 TTCACATTTTAAAAATTTGTAAGTGGATAGGAGAACTGCAGCTGTCAATAGCTAGG 1470  
DB 721 TTCACATTTTAAAAATTTGTAAGTGGATAGGAGAACTGCAGCTGTCAATAGCTAGG 780  
QY 1471 GCTGAATTTTGTGACATAAAATAAATCAATTCATCTCTTTTGTGATTAATAA 1528  
DB 781 GGTGAATTTTGTGCGGTGAAT-AAATAATSAATTTTCAACCTTTTGTGTTTATAAAA 837

RESULT 9  
US-09-224-110-8  
Sequence 8, Application US/09224110  
Patent No. 6337195  
GENERAL INFORMATION:  
APPLICANT: Yu, Guo-Liang  
APPLICANT: Rosen, Craig  
TITLE OF INVENTION: Colon Specific Genes and Proteins  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
ADDRESSEE: Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: NJ  
COUNTRY: USA  
ZIP: 07068-1739  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/224,110  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/469,667  
FILING DATE: 06-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Ferraro, Gregory D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-435  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 878 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2..685  
US-09-224-110-8

Query Match  
Best Local Similarity 47.0%; Score 790.8; DB 3; Length 878;  
Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

QY 692 TGCTACTCAAGTATTTTACACAACTATGACACGAAATGGTAGATACAGTGTAAAGTGGG 751

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Db 1 TGTCTACTCAAGGTATTTTCAACATTTATCACAGTAATGTAGATACAGTGTAAAGTGG 60
Qy 752 GGCCTCTGGAGAGAGTTAAACGACGACGAGAGAGTGTATACCCAGCAGAGTGGAGCACT 811
Db 61 GGCCTCTGGAGAGAGTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACT 120
Qy 812 GTACATACCTGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 871
Db 121 GTACATACCTGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 180
Qy 872 TAATAAGATGATGTTTCAACACAAAGAGTGTGTTTTCAGCAGAACTCTCGGGAGGCTC 931
Db 181 TAATAAGATGATGTTTCAACACAAAGAGTGTGTTTTCAGCAGAACTCTCGGGAGGCTC 240
Qy 932 ATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATACCTGATCTCTTCCCACTGGCCAAAT 991
Db 241 ATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATACCTGATCTCTTCCCACTGGCCAAAT 300
Qy 992 CACCGACCTGAAGGGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCC 1051
Db 301 CACCGACCTGAAGGGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCC 360
Qy 1052 TGGGATGATTAATGACCATGGAACAGCTCACAAAGTATATCAATCGAATAAGTACAGTAT 1111
Db 361 TGGGATGATTAATGACCATGGAACAGCTCACAAAGTATATCAATCGAATAAGTACAGTAT 420
Qy 1112 TCTTGATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATACCTGCTCTCATCCC 1171
Db 421 TCTTGATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATACCTGCTCTCATCCC 480
Qy 1172 AAAGAGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAACATTTACTTTTGA 1231
Db 481 AAAGAGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAACATTTACTTTTGA 540
Qy 1232 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTGTAAGTGTGATCTGAAATCAGAAAT 1291
Db 541 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTGTAAGTGTGATCTGAAATCAGAAAT 600
Qy 1292 ATCCACATTTGACAGATCTTTTGTGTTTAAACAGAAACATTTACTTTTGA 1351
Db 601 ATCCACATTTGACAGATCTTTTGTGTTTAAACAGAAACATTTACTTTTGA 660
Qy 1352 TCTGATGAAAGCTCTGCTCCTTGT - CCTAATATTTCATCAACAGACACATTTCTTGCA 1410
Db 661 TCTGATGAAAGCTCTGCTCCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCT 720
Qy 1411 TCCATTTTAAATATGATGGAAGTGTGATGGAAGTGTGATGGAAGTGTGATGGAAGTGT 1470
Db 721 TCCATTTTAAATATGATGGAAGTGTGATGGAAGTGTGATGGAAGTGTGATGGAAGTGT 780
Qy 1471 GCTGATTTTCTCAGATAATTAATAATCAATTCATCTTTTGTGATTTATA 1528
Db 781 GGTGATTTTGTGGCGTGAAT - AAATAATATTTTCANCCCTTTTGTGTTTATA 837
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## RESULT 10

PCT-US95-07289-8

; Sequence 8, Application PC/TUS9507289

; GENERAL INFORMATION:

; APPLICANT: Yu, Guo-Liang

; APPLICANT: Rosen, Craig

; TITLE OF INVENTION: Colon Specific Genes and Proteins

; NUMBER OF SEQUENCES: 24

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,

; ADDRESSEE: Stewart &amp; Olstein

; STREET: 6 Becker Farm Road

; CITY: Roseland

; STATE: NJ

; COUNTRY: USA

; ZIP: 07068-1739

; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07289
; FILING DATE: 06-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-265
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 878 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..685
; PCT-US95-07289-8
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Query Match 47.0%; Score 790.8; DB 5; Length 878;

Best Local Similarity 97.9%; Pred. No. 1.3e-238;

Matches 820; Conservative 1; Mismatches 15; Indels 2; Gaps 2;

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Qy 692 TGTCTACTCAAGGTATTTTCAACATTTATCACAGTAATGTAGATACAGTGTAAAGTGG 751
Db 1 TGTCTACTCAAGGTATTTTCAACATTTATCACAGTAATGTAGATACAGTGTAAAGTGG 60
Qy 752 GGCCTCTGGAGAGAGTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACT 811
Db 61 GGCCTCTGGAGAGAGTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCACT 120
Qy 812 GTACATACCTGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 871
Db 121 GTACATACCTGCTGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 180
Qy 872 TAATAAGATGATGTTTCAACACAAAGAGTGTGTTTTCAGCAGAACTCTCGGGAGGCTC 931
Db 181 TAATAAGATGATGTTTCAACACAAAGAGTGTGTTTTCAGCAGAACTCTCGGGAGGCTC 240
Qy 932 ATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATACCTGATCTCTTCCCACTGGCCAAAT 991
Db 241 ATTTGTGGCTTCTGATGTCCTCCAAATGCTCCATACCTGATCTCTTCCCACTGGCCAAAT 300
Qy 992 CACCGACCTGAAGGGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCC 1051
Db 301 CACCGACCTGAAGGGGAAATTCACGGGGGAGTCTCAATTAATCTGACTTGGACAGCTCC 360
Qy 1052 TGGGATGATTAATGACCATGGAACAGCTCACAAAGTATATCAATCGAATAAGTACAGTAT 1111
Db 361 TGGGATGATTAATGACCATGGAACAGCTCACAAAGTATATCAATCGAATAAGTACAGTAT 420
Qy 1112 TCTTGATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATACCTGCTCTCATCCC 1171
Db 421 TCTTGATCTCAGAGACAGTTCATGAATCTCTCAAGTGAATACCTGCTCTCATCCC 480
Qy 1172 AAAGAGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAACATTTACTTTTGA 1231
Db 481 AAAGAGAGCAACTCTGAGGAGTCTTTTGTGTTTAAACAGAAACATTTACTTTTGA 540
Qy 1232 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTGTAAGTGTGATCTGAAATCAGAAAT 1291
Db 541 TGGCAGAGATCTTTTCAATGCTTATTCAGGCTGTGTAAGTGTGATCTGAAATCAGAAAT 600
Qy 1292 ATCCACATTTGACAGATCTTTTGTGTTTAAACAGAAACATTTACTTTTGA 1351
Db 1352 ATCCACATTTGACAGATCTTTTGTGTTTAAACAGAAACATTTACTTTTGA
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Db 601 ATCAACATTCGACGAGTATCTTTGTTTATTCTCCACAGACTCCGCCGACGACACCTAG 660  
QY 1352 TCCGTGATGAACGCTGCTCCTTGT-CCCTAATATTATCAACAGACCACTTCCTGGCA 1410  
Db 661 TCCGTGATGAACGCTGCTCCTTGTGCTTAATATTCATATCAACAGACCACTTCCTGGCA 720  
QY 1411 TTCACATTTTAAAAATTTATCTGGAAGTGGATAGGAACTGCGAGCTGCTCAATAGCCTAGG 1470  
Db 721 TTCACATTTTAAAAATTTATGGAAGTGGATAGGAACTGCGAGCTGCTCAATAGCCTAGG 780  
QY 1471 GCTGAATTTTGTGACGATAATAATAAATAATCAATTCATCCTTTTTTTTGAATTATAAA 1528  
Db 781 GGTGAATTTTGTGCGGTGAAT-AAATAATSAATTTCANCCCTTTTTTTGTTTATAAAA 837

## RESULT 11

US-09-049-698-16  
; Sequence 16, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLASS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068 US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 16:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3043 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-09-049-698-16  
Query Match 40.0%; Score 673.8; DB 3; Length 3043;  
Best Local Similarity 69.2%; Pred. No. 2.2e-201;  
Matches 966; Conservative 0; Mismatches 417; Indels 12; Gaps 3;  
QY 1 AACAAAGTGTGGCCATCATCCACAGTCGCTGCTTTGGGGCCCTCTCGAGCTCAAGAACTAG 60

Db 1293 AACAAAGTGGGGCCATGTTTCATTTTATGCTTTGGGAAGAGCTGCTGATGAAGCAGTAA 1352  
QY 61 AGAGCTGTCAAAATACAGAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAACA 120  
Db 1353 TAGAGATGAGCAAGATAACAGAGGAGAGTCAATTTTATGTTTCAGATGAAGCTCAGAAACA 1412  
QY 121 ATGGCTCATGATGCTTTTGGGGCCCTTTCATCAGGAATGAGCTGTCTCTCAGCGCT 180  
Db 1413 ATGGCTCATGATGCTTTTGGGGCTCTTACATCAGGAATACTGATCTCTCCAGAAAGT 1472  
QY 181 CCATCAGCTGTAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1473 CCCTTCAGCTCGAAGTAGAGGATTAACTGATAGTATGCTGATGATGAACGACTG 1532  
QY 241 TGATGTGGACAGACCGTGGGAAAGGACACTTTTGTTCCTTATCAGCTGACACACGAGC 300  
Db 1533 TCATAATTGATAGTACAGTGGGAAAGGACACGTTCTTCTCATCAGACGAAACAGTCTGC 1592  
QY 301 CTCCCCAAATCCTTCTCTGGGATCCAGTGGACAGAGCAAGGCTGCTTTGTAGTGACA 360  
Db 1593 CTCCCGATATTCTCTCTGGGATCCAGTGGGAAACAATAATGGAATAATTCACAGTGGATG 1652  
QY 361 AAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATTGCTAAAGTTGGCACTTGGAAAT 420  
Db 1653 CAATTCCAAATGGCTTCTCAGTATTCAGGAAGTCAAGAGTGGCACTTGGCAT 1712  
QY 421 ACAGTCTGC-----AAGCAAGCTCAAAACCTTGACCTGACTGTCAAGTCCCGTGC 474  
Db 1713 ACAATCTTCAAGCCAAAGCGAACCCAGAAACATTAATCAGATAACTTCTCGAGCAG 1772  
QY 475 CCAATGCTACCTGCTCCCAATTTACAGTGAATTCCTCAAAACGACACAGGACACAGCAAT 534  
Db 1773 CAAATCTTCTGTGCTTCCCAATCAGAGTGAATGCTAAATGAATAAGGAGCTAAACAGTT 1832  
QY 535 TCCCGAGCCCTCTGTGATTTATGCAAAATATTCGCAAGAGAGCTCCCAATTTCTCAGGG 594  
Db 1833 TCCCGAGCCCAATGATGTTTACGCAAAATTCACAGGATATGTACCTGTTCTTGAG 1892  
QY 595 CCAAGTGCACAGCCCTGATTTGAATGATGATGATGATGATGATGATGATGATGATGATG 654  
Db 1893 CCAATGTGACTGCTTTTCATTTGAATCAGAGATGACATACAGAAAGTTTTCGAACTTTGG 1952  
QY 655 ATATGAGCAGCTGCTGATGCTTAAAGATCAGCTGCTTAAAGATGATGATGATGATGATG 714  
Db 1953 ATATGCTGACAGCGCTGATTTCTTCAAGAAATGATGAGTCTACTCCAGGATTTTACAG 2012  
QY 715 CTTATGACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGAGTGTAAACGAG 774  
Db 2013 CATATACAGAAATGGCAGATATAGCTTAAAGTTCGGGCTCATGGAGGACAACTG 2072  
QY 775 CCAGAGGAGAGTGATACCCAGCAGAGTGGAGACATGTATACATACCTGGTGGATTTGAGA 834  
Db 2073 CCAGGCTAAAAATACGGCTTCCACTGAATAGAGCGCGTACATACAGAGCTGGGTAGTA 2132  
QY 835 ATGATGAATACAAATGGAATCCACAGAGCTGAAATTAATAGGATGATGTTCAACACA 894  
Db 2133 ACGGGGAAATTTGAAGCAAAACCCGCCAAGAGCTGAAATTTGAT---GAGGATACTCAGACCA 2189  
QY 895 AGCAAGTGTGTTTTCAGCAGAAACATCCTCGGAGGCTCATTTGTGGGCTTCTGATGTCCTCAA 954  
Db 2190 CTTTGGAGGATTTACGGCAGACAGATCCGAGGTCGATTTGGTATACAAATGTCCTCAA 2249  
QY 955 ATGCTCCCAATACCTGATCTTCTCCACCTGGCCAAATCAACCGACCTGAAAGCGGAAATTC 1014  
Db 2250 GCCTTCCCTTGCCTGACCAATACCCCAAGTCAAATCAGAGCTTGTATGCCACAGTTC 2309  
QY 1015 ACGGGGAGCTCTCATTAATCTGACTTGGACAGCTCCTGGGAGTATTATGACCATGGAA 1074  
Db 2310 ATGAGG---ATAAGATTATTCTTACATGGACAGCACCAGGAGATAATTTTGTGTTGGAA 2366  
QY 1075 CAGCTCACAAGTATATCATTTCGAATTAAGTACAAAGTATTTCTTGATCTCAGAGACAAGTTCA 1134

Db 2367 AAGTCAACGTTATATCATTAAGATAAAGTGAAGTATTTCTGATCTAAGAGACAGTTTGT 2426  
QY 1135 ATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAACTCTGAGGAAG 1194  
Db 2427 ATGATGCTCTTCAAGTGAATACTACTGATCTGTCCCAAGAGGAGGCCAACTCCAAGGAA 2486  
QY 1195 TCTTTTGTGTTTAAACCAAGAAACATTACTTTTGAATAATGGCAGAGATCTTTTCATTGCTA 1254  
Db 2487 GCCTTGATTTAAACCAAGAAATATCTCAGNAGAAATGCAACCCACATATTATTGCCA 2546  
QY 1255 TTCAGGCTGTGTAAGGTGATCTGAATCAGAAATATCAACATTCGACGAGTATCTT 1314  
Db 2547 TTAAGATATAGATAAAGCAATTTGACATCAAAAGTATCCAACTTCGACAACTT 2606  
QY 1315 TGTTTATCTCCACAGACTCCGCGACAGACACCTAGTCTCTGATGAAGAGTCTCTCTT 1374  
Db 2607 TGTTTATCTCCAGCAAACTCTGATGACATTTGATCTCTACTCTCTACTCTCTACTC 2666  
QY 1375 GTCCTAATATTCTATA 1389  
Db 2667 CTGATAAAGTCATA 2681

## RESULT 12

US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: KLISS, MICHAEL R.  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.P1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3181 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single

; TOPOLOGY: linear  
US-09-049-698-18  
Query Match 40.0%; Score 673.8; DB 3; Length 3181;  
Best Local Similarity 69.2%; Pred. No. 2.3e-201;  
Matches 966; Conservative 0; Mismatches 417; Indels 12; Gaps 3;  
QY 1 AACAAAGTGTGGCCATCATCCACACAGTCGTTTGGGCGCCCTCTGAGCTCAAGAACTAG 60  
Db 1304 AACAAAGTGGGGCCCAATTTGTTTATTTTGGGAAGAGCTGCTGATGAACAGTAA 1363  
QY 61 AGGAGCTGTCCAAATCAGCAGGAGTTTACAGACATATGCTTACAGTCAAGTTCAGAA 120  
Db 1364 TAGAGATGACAGATGAACAGAGGAAGTCAATTTTAATGTTTCAATGAAGCTCAGAA 1423  
QY 121 ATGGCTCATATGATGCTTTTGGGCGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAG 180  
Db 1424 ATGGCTCATATGATGCTTTTGGGCGCTTATACATCAGGAAATATGATCTCTCCCAAG 1483  
QY 181 CCATCCAGCTTGAGATGAAGGATTAACCTCCAGAACAGCCAGTGTGATGATGGCAG 240  
Db 1484 CCCTTCAGCTCGAAAGTAAGGGATTAACACTGATTAATGCTGTGATGAACACACTG 1543  
QY 241 TGATCGTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGACACGCGAG 300  
Db 1544 TCATAATTGATGATCAGTGGGAAAGGACAGCTTCTTCTCATCAGATGAACAGTCTGC 1603  
QY 301 CTCGCCAAATCCTTCTCTGGGATCCAGTGGACAGAAAGAGTGGCTTTGTAGTGACA 360  
Db 1604 CTCAGTATTTCTCTCTGGGATCCAGTGGAAACATAATGGAATTTTCCAGTGGATG 1663  
QY 361 AAAACACCAAAATGGCTACTCTCCAATCCAGGCATTTGTAAGTTGGCATTGGAAAT 420  
Db 1664 CAATCTCCAAATGGCTCTATCTCAGTATCCAGGAACTGCAAGAGTGGGCACTTGGG 1723  
QY 421 ACACTGTGC-----AAGCAAGCTTCAAAACCTTGAACCTGACTGTCACTGCCGTGCGT 474  
Db 1724 ACAATCTTCAAGCCAAAGCGAACCCGAAACATTAATTTACAGTAACTTCTCGAGAG 1793  
QY 475 CCAATGCTACCTGCTTCCAAATTAAGTGTACTTCCAAACCAAGCAAGGACACCAAGAA 534  
Db 1784 CAAATTTCTCTGCTGCTTCCAAATCAGTGAATGTAAATGAATGAAGAGCTAAACAGTT 1843  
QY 535 TCCCGAGCCCTCTGTAGTTTATGCAATATTCGCAAGAGGCTCTCCCAATTTCTCAGG 594  
Db 1844 TCCCGAGCCCAATGATTTTACGAGAAATTTTACAGGATATGTAACCTTGTCTTGGAG 1903  
QY 595 CCAGTGTACAGCCCTGATTTGAATCAAGTGAATGGAATAACAGTTTACCTTGGAACTACTG 654  
Db 1904 CCAATGTGACTGCTTTTCAATTCAGATTCAGAAATGACATACAGAACTTTTGGAACT 1963  
QY 655 ATAATGAGCAGGTGTGATGCTACTTAAGATGACGGTGTCTACTCAAGTATTTTCAAA 714  
Db 1964 ATAATGTCAGGCGCTGATTTCTTCAAGAAATGATGGAGTCTACTCCAGGATTTTACAG 2023  
QY 715 CTTATGACACGAATGTTAGATACAGTCTAAAGTGGGGCTCTGGGAGGAGTTAAACGAG 774  
Db 2024 CATATACAGAAATGGCAGATATAGCTTAAAGTTTGGGCTCATGGAGGAGCAACACTG 2083  
QY 775 CCAGAGCGAGATGATACCCAGCAGAGTGGAGCACTGTATACATCTGGCTGCAATTTGAGA 834  
Db 2084 CCAGGCTAAATTTACGGCCCTCCACTGAATAGAGCCGCTACATACCAGGCTGGGTAGTGA 2143  
QY 835 ATGATGAATATCAATGGAATCCCAAGAGCTGAATTAATAGGATGATGTTTCAACACA 894  
Db 2144 ACGGGGAAATTTGAAGCAAAACCCGCAAGAGCTGAAATTTGAT---GAGGATCTCAGACCA 2200  
QY 895 AGCAAGTGTGTTTTCAGCAGAAACATCTCCGGAGGCTCATTTGTGGCTTCTGATCTCCAA 954  
Db 2201 CCTTGGAGGATTTTACGCCGAGAGCATCCGAGAGTGCATTTTGGTATCAGAGTCCCAA 2260  
QY 955 ATGCTCCCATPACTGATCTCTTCCCACTGGCCAAATACCGAGCTGCAAGCGGGAATTC 1014



Db 2261 GCCTTCCCTTGCCTGACCAATACCAAGTCAAAATCACAGACCTTGATGCCACAGTTC 2320  
QY 1015 ACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATATGACCATGGAA 1074  
Db 2321 ATGAGG---ATAAGATTATCTTATCATGGACAGCACCCAGGAGATAATTTTGATTTGGAA 2377  
QY 1075 CAGCTCAAGATATATCATTCGAAATAAGTACAAGTATTCTTGATCTCAGAGACAAGTTCA 1134  
Db 2378 AAGTTCAACGTTATATCATAGATATAGTCAAGTATTTCTTGATCTAAGAGACAGTTTG 2437  
QY 1135 ATGAATCTTCAAGTGAATATCTGCTCTCATCCCAAAGGAAGCAACCTCTCAGGAAG 1194  
Db 2438 ATGATGCTCTTCAAGTAAATATCTGATCTGTACCAAGAGGAGCCAACTCCCAAGAAA 2497  
QY 1195 TCTTTTGTAAACACGAAACATTAATTTTGAATGGACAGATCTTTTCATTGCTA 1254  
Db 2498 GCTTTGCAATTAACACGAAATATCTCAGAAGAAATGCAACCAATATTTATGCCA 2557  
QY 1255 TTCAGGCTGTTGATAAGTCTGAAATCAGAAATATCCAACTTGACGAGTATCTT 1314  
Db 2558 TTAAAGTATAGATAAAGCAATTTGACATCAAAAGTATCCAACTTGACAAAGTACTT 2617  
QY 1315 TGTATTCTCCACAGACTCCGCCAGACACCTGCTGATGAAACGCTGCTCCTT 1374  
Db 2618 TGTATTCCCTCAAGCAAAATCCTGATGACATGATGATCCTACTCCTACTCCTACTC 2677  
QY 1375 GTCTTAATATTCATA 1389  
Db 2678 CTGATAAAGTCATA 2692

## RESULT 13

US-09-016-434-928  
; Sequence 928, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HEREWITH  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Zeller, Karen J.  
; REGISTRATION NUMBER: 37,071  
; REFERENCE/DOCKET NUMBER: PA-0002 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 928:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1081 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single

; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT05  
; CLONE: 774419  
; US-09-016-434-928

Query Match 26.2%; Score 441.4; DB 4; Length 1081;  
Best Local Similarity 69.2%; Pred. No. 1.8e-128;  
Matches 633; Conservative 0; Mismatches 276; Indels 6; Gaps 2;

QY 475 CCAATGCTACCCCTCCCAATTAACAGTGAATTCACAAACGAAACGACACCAAGCAAT 534  
Db 2 CAAATCTCTCTGTCCTCCCAATCAAGTGAATGCTAAATGAATAAGCACTAACAGTT 61  
QY 535 TCCCGAGCCCTCTGTTAGTATTTATGCAAAATATTCGCCAAGGAGCCTCCCAATTTCTCAGGG 594  
Db 62 TCCCGAGCCCAATGATTTGTTTACGACAAATTCACAAAGGATATGTACCTGTTCTTGAG 121  
QY 595 CCAGTGTACAGCCCTGATTTGAATCAGTGAATGGAAAACAGTTACCTTGGAACTACTGG 654  
Db 122 CCAATGAGTCTCTTTCAITGAAATCACAGAAATGGACATACAGAAATTTTGGAACTTTGG 181  
QY 655 ATAATGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAA 714  
Db 182 ATAATGCTGAGGGCTGATTTCTTCAAGAAATGATGGAGTCTACTCCAGGTATTTCACAG 241  
QY 715 CTTATGACAGAAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAACGAG 774  
Db 242 CATATACAGAAATGGCAGATATAGCTTAAAGTTCGGGCTCATGGAGGAGCAAACTG 301  
QY 775 CCAGCGGAGAGTGATACCCAGCAGAGTGGACACTGTATACATACCTGGCTGGATTGAGA 834  
Db 302 CCAGGCTAAATTAACGGCTCCACTGAATAGAGCCGCTATACACCAAGGCTGGGTAGTGA 361  
QY 835 ATGATGAATACAAATGGAATCCACAGACCTGAAATTAATAGGATGATGTTCAACACA 894  
Db 362 ACGGGAAATTTGAAGCAAAACCCGCAAGACCTGAATTTGAT---GAGGATCTCAGACCA 418  
QY 895 AGCAAGTGTCTTTCAGCAGAAACATCTCGGAGGCTCATTTTGGCTTCTGATGCCAA 954  
Db 419 CTTGGAGGATTTTCAGCGCAACAGCATCCGAGGTGCATTTGGTATCATCAAGTCCCAA 478  
QY 955 ATGCTCCCATACCTGATCTCTCCACCTCGCAAAATCACCGACCTGAAGCGGAAATTC 1014  
Db 479 GCCTTCCCTTGCCTGACCAATACCCCAAGTCAAAATCACAGACCTTTGATGCCACAGTTC 538  
QY 1015 ACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGGATGATTATGACCATGAA 1074  
Db 539 ATGAGGATAG---ATTATTTTACATGGACAGCACCCAGGAGATAATTTTGTGTTGGAA 595  
QY 1075 CAGCTCAAGATATATCATTCGAATTAAGTACAAGTATCTTGTATCTCAGAGACAAGTTCA 1134  
Db 596 AAGTTCAACGTTATATCATAGAATAAAGTCAAGTATTTCTGATCTAAGAGACAGTTTG 655  
QY 1135 ATGAATCTCTTCAAGTGAATCTACTGCTCTCATCCCAAAGGAGCAACCTCTGAGGAAG 1194  
Db 656 ATGATGCTCTTCAAGTAAATCTACTGATCTGTCTACCAAGAGGAGGCACTCCCAAGAAA 715  
QY 1195 TCTTTTGTAAACACGAAACATTAATTTTGAATGGACAGATCTTTTCATTGCTA 1254  
Db 716 GCTTTGCAATTAACCCAGAAATATCTCAGAAGAAATGCAACCCACATATTTATTGCCA 775  
QY 1255 TTCAAGCTGTTGAATAGGCTGATCTGAAATCAGAAATATCCAACTTGACGAGTATCTT 1314  
Db 776 TTAAGAGTATAGATAAAGCAATTTGACATCAAAAGTATCCAACTTGACAAAGTAACTT 835  
QY 1315 TGTATTCTTCCACAGACTCCGCCAGACACCTAGTCTGATGAAACGCTGCTCCTT 1374  
Db 836 TGTATTCCCTCAAGCAAAATCCTGATGACATGATCCTACTCCTACTCCTACTCCTACTC 895  
QY 1375 GTCTTAATATTCATA 1389  
Db 896 CTGATAAAGTCATA 910

## RESULT 14

US-09-049-698-17  
Sequence 17, Application US/09049698  
Patent No. 6368792

## GENERAL INFORMATION:

APPLICANT: BILLING-MEDEL, PATRICIA A.  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: HAYDEN, MARK  
APPLICANT: KLASS, MICHAEL R.  
APPLICANT: ROBERTS-RAPP, LISA  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STROUPE, STEPHEN D.  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
TITLE OF INVENTION: TRACT  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: PastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
FILING DATE: US/09/049,698  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997

## ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1399 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear

## US-09-049-698-17

Query Match 26.2%; Score 441.4; DB 3; Length 1399;  
Best Local Similarity 69.2%; Pred. No. 2.1e-128;  
Matches 633; Conservative 0; Mismatches 276; Indels 6; Gaps 2;

QY	475	CCAATGCTACCTCCCTCCCAATACAGTACTTCCAAACGAAACAGGACACCAAT	534
Db	2	CAAAATCTCTGTGCTCCCAATACAGTACTTCCAAACGAAACAGGACACCAAT	61
QY	535	TCCCAGCCCTCTGTAGTTATGCAATATTCGCCAAGGAGCCCTCCCAATTCACGG	594
Db	62	TCCCAGCCCAATGATTGTTTACCGCAAAATCTTACAAGGATATGTACCTGTTCTTGAG	121
QY	595	CCAGTGTCAGCCCTGATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT	654
Db	122	CCAATGCTGCTCTTCTTCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT	181
QY	655	ATAATGGAGCGGTGCTGATGCTACTAAGATGACGGTGTCTTACTCAAGGTATTTCACAA	714

Db	182	ATRAATGTCAGGCGCTGATTCTTTCAAGAATGATGAGTCTACTCCAGGTATTTTACAG	241
QY	715	CTTATGACAGATGTTAGATACAGTGTAAAAGTGGGGCTCTCGGAGGAGTTAACGAG	774
Db	242	CATATACAGAAAATGGCAGATATAGCTTAAAAGTTCGGGCTCATGGAGGAGCAAACTG	301
QY	775	CCAGCGGAGAGTGATACCCCGCAGAGTGGAGCACTGTATACATACCTGGCTGGATTGAGA	834
Db	302	CCAGGCTAAAATTACGGCTCCACTGAATAGAGCCGCTACATACAGGCTGGTAGTGA	361
QY	835	ATGATGAAATACAAATGGAATCCACCAAGACTGAAATTAATAAGATGATGTTCAACACA	894
Db	362	ACGGGAAATTTGAAGCAAAACCGCCAAAGACTGAAAATTGAT---GAGGATACAGACCA	418
QY	895	AGCAAGTGTGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGCCAA	954
Db	419	CTTTGGAGGATTTTCAGCGCAACAGCATCCCGAGGTGCAATTTGTGGTATCACAAGTCCAA	478
QY	955	ATGCTCCCATACCTGATCTCTCCACCTGCGCAAAATCACCGACTGAAAGCGGAAATTC	1014
Db	479	GCCTTCCCTGCTGACCAATACCCCAAGTCAATCACAGACCTTGATGCCACAGTTC	538
QY	1015	ACGGGGCAGTCTCATTTAAATCTGACTTGGACAGCTCTCTGGGATGATTTATGACCATGAA	1074
Db	539	ATGAGGATAAG---ATTATTTCTTACATGGACAGCACCCAGGAGATAATTTTGTGAA	595
QY	1075	CAGCTCAAGATATATCATTCGAATAGTACAGTATTTCTGATCTCAGACAGTTC	1134
Db	596	AAGTTCAACGTATATATGAAGATAAGTGAAGTATTTCTGATCTAAGACAGATTTTG	655
QY	1135	ATGAATCTCTTCAAGTGAATACTGCTCTCATCCCAAGGAAAGCAACTCTGAGGAAG	1194
Db	656	ATGATGCTCTTCAAGTAAATACTACTGATCTGTCCCAAGAGGCGCAACTCCAAAGAA	715
QY	1195	TCCTTTGTTTAAACCAAGAAACATTAATTTTGAATGCGACAGATCTTTTTCATGCTA	1254
Db	716	GCTTTGCAATTTAAACCAAGAAATATCTCAGAAAGAAATGCAACCCACATATTTATTGCA	775
QY	1255	TTCAAGGCTGTTGATAAGTCTGATCTGAATCAGAAATATCAACATTCACAGTATCTT	1314
Db	776	TTAAAAGTATAGATAAAAGCAATTTGACATCAAAAGTATCCCAATTCGCAAGTAACTT	835
QY	1315	TGTTTATTTCTCCACAGACTCCGCGCAGACACACCTAGTCTCTGTGATGAACAGTCTGCTCT	1374
Db	836	TGTTTATCCCTCAAGCAAACTCTGATGACATTTGATCTCTCTCTCTCTCTCTCTCTCT	895
QY	1375	GTCCTAATATTCATA 1389	
Db	896	CTGATAAAAGTCATA 910	

## RESULT 15

US-09-193-562D-1  
Sequence 1, Application US/09193562D  
Patent No. 6309857

## GENERAL INFORMATION:

APPLICANT: Pauli, Benedicht U.  
TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
Channel-Adhesion Molecules  
FILE REFERENCE: 18617.0052  
CURRENT APPLICATION NUMBER: US/09/193,562D  
CURRENT FILING DATE: 1998-11-17  
PRIOR APPLICATION NUMBER: US/60/065,922  
PRIOR FILING DATE: 1997-11-17  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 1

## LENGTH: 3317

## TYPE: DNA

## ORGANISM: Unknown

## FEATURE:

OTHER INFORMATION: sequence encoding Lu-BCAM-1 and Lu-ECAM-1 associated

protein from bovine endothelial cells

## US-09-193-562D-1

Query Match		24.6%;	Score 414.4;	DB 3;	Length 3317;
Best Local Similarity		59.6%;	Pred. No. 1.2e-119;		
Matches 804;		Conservative 0;	Mismatches 516;	Indels 30;	Gaps 5;
Qy	1	AACAAAGTGGTCCCATCATCCACACAGTCGCTTTGGGGCCCTCTCGAGTCAAGAAGTAG	60		
Db	1351	AACGAAGTGGTGCATCATCCACACCAATGCTCTGGGACCCCTCTGCTGCCAAGACACTGG	1410		
Qy	61	AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAACA	120		
Db	1411	AGACATTGTCAAATATGACAGAGGATATC-----GTTTTTTGCCAATAAAGACATAA	1464		
Qy	121	ATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTCTCTCAGCGCT	180		
Db	1465	CTGGCTTACTAATGCTTTTCACTAGTAGAATTTCACTAGAAAGTGGAGCATCACTCAGCAGG	1524		
Qy	181	CCATCCAGCTTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGGCACAG	240		
Db	1525	CTATTTCAGTTGGAAAGCAAGCCTTGAAATTTACAGHAGGAAAGAGTAACGGCACAG	1584		
Qy	241	TGATCGTGGACAGACCGTGGGAAGGACACTTTGTTTCTTATACCTCGGACAAAGCAGC	300		
Db	1585	TGCTGTAGACAGTACAGTTGGAAATGACACTTTCTTTGTTGTACATGGACAATACAAA	1644		
Qy	301	CTCCCAATCTCTCTGGATCCAGTGGACAGAAGCA-----AGTGGCTTTG	351		
Db	1645	AACCAGAAATTTGTTCTCCAGATCCAAAGGAAGAAATATAAACCCTCGGATTTCAAAG	1704		
Qy	352	TAGTGGACAAAACACCAAAATGGCCTACTCCAAATCCAGGCATTTGCTAAGTTGGCA	411		
Db	1705	AAGATAAGTTAAATATTCGATCTGCTGCTGCGTAAATACCTGGTATTGACAGACAGTA	1764		
Qy	412	CTTGGAAATACAGTCTGC-----AAGCAAGCTCAAAACCTTGACCCCTGACTGTCA	462		
Db	1765	CTTGGACTACAGCCTTTCTAAATATCATGCGCAGCTCTCAAATGCTAACAGTGACAGTGA	1824		
Qy	463	CGTCCCGTGCCTCAATGCTACCTCGCTGCTCAATTTACAGTACTTCCAAACGGAACAGG	522		
Db	1825	CCATCGAGCAGAAAGTCTCTACTATATCCCCAGTAATGGAACAGCTCACATGAGTCAAC	1884		
Qy	523	ACACAGCAAAATCCCGAGCCCTCTGGTAGTATTTATGCAAAATATTCGCCAAGGAGCCTCCC	582		
Db	1885	ATACAGCACATTATCTTAGCCCAATGATTGTTATGACAGTCACTCAGTCAAGGTTTTTGC	1944		
Qy	583	CAATTCTCAGGCCAGTGTACAGCCCTGATGTAATGATGTAATGGAATAACAGTTACCT	642		
Db	1945	CTGTACTGGGAATCAGTGTAAATAGCCATATAGAAACCGAAGATGGACATCAAGTAACAT	2004		
Qy	643	TGGAATCTACTGGATAATGGAGCAGGTGCTGATGCTACTTAAGGATGACGGTGTCTACTCA	702		
Db	2005	TGGAGCTCTGGGCAATGGTGAGGTGCTGATCTGTCAAGATGATGGCATCTACTCAA	2064		
Qy	703	GGTATTTCAACATTTATGACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAG	762		
Db	2065	GATACTTTACAGATTACTATGGAATGGTAGATACAGTTTAARAGTACATGCACAGCAA	2124		
Qy	763	GAGTTAAGCAGCCAGGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTG	822		
Db	2125	GAACAACACAGCGGTAGGCTAAATTTAAGACAAACACAGAAACAAAGTTCTATGTTCCAG	2184		
Qy	823	GCTGGATTGAGATGATGAATAACAATGGAAATCCACCAAGACCTGAAATTAATAAGGATG	882		
Db	2185	GCTACGTTGAAACCGTAAATTAATTAATGTAACCCAGCCAGCCTGGAAGTCAAGATGACC	2244		
Qy	883	ATGTTCAACAACGAAGTGTGTTTTCAGCAGAAATCTCTGGGAGGCTCATTTGTGGCTT	942		
Db	2245	TGGCAAAAGCTTAAATAGAGACTTTTAGCAGACTAACTCTGGAGGGTCAITTTACTGTAT	2304		
Qy	943	CTGATGTCCCAATGTCTCCCA---TACCTGATCTCTCCCACTGGCCAAATCACCGACC	999		
Db	2305	CAGGAGCTCTCTCTCTGGTAATCACCCCTTCTGTGTCTCCACCCAGTAAATTACAGATC	2364		

Qy	1000	TGAAGGCGGAATTTACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATG	1059
Db	2365	TTGAGGCTAAGTTTCAAAGAAG---ATTATATTCACTTTTCATGGACAGCCCTTGGCAATG	2421
Qy	1060	ATTATGACCATGGAAACAGCTCACAAAGTATATCATTTCGAATAGTACAAGTATTTCTTGATC	1119
Db	2422	TCCTAGATAAAGGAAAGCCACAGCTACATTAAGAATAAGTAAGAGTTTTCATGGATC	2481
Qy	1120	TCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATFACTCTCTCATCCCAAGGAAG	1179
Db	2482	GTCAAGAAAGATTTTGACAAATCGGACTTTTGTGTAATFACTTTAACTAATACCTAAGGAGG	2541
Qy	1180	CCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAAAACATTTACTTTTGAAAAATGGCACAG	1239
Db	2542	CCGGATCAAAAAGAAAAATTTTGAATTTTAAGCCAGAACATTTTAGAGTAGAAAAATGGCACCA	2601
Qy	1240	ATCTTTTTCATTTGCTATTTCAGGCTGTGTGATAAGGTGCGATCTGAAATCAGAAATATCCAACA	1299
Db	2602	AATCTATATTTCAGTCCAGCCATCAACGAAGCCATCTCATCTCAGAGGTTTCTCACA	2661
Qy	1300	TTGCAAGAGTATCTTTGTTTATTCTCTCCAC	1329
Db	2662	TTGTACAAGCAATCAAAATTTATTCTCTAC	2691

Search completed: October 18, 2004, 15:03:25  
Job time : 97.6125 secs

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QY 121 ATGGCCTCATGTGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCAGCGCT 180  
Db 1284 ATGGCCTCATGTGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCAGCGCT 1343  
QY 181 CCATCCAGCTTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCACAG 240  
Db 1344 CCATCCAGCTTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGSCACAG 1403  
QY 241 TGATCGTGGACAGACCCCTGGGAAAGGACACTTTTGTCTTATACCTGGACAGCGAGC 300  
Db 1404 TGATCGTGGACAGACCCCTGGGAAAGGACACTTTTGTCTTATCACCTGGACAGCGAGC 1463  
QY 301 CTCCCAATCTCTCTGGGATCCAGTGACAGAACCAAGTGGCTTTGTAGTGGACA 360  
Db 1464 CTCCCAATCTCTCTGGGATCCAGTGACAGAACCAAGTGGCTTTGTAGTGGACA 1523  
QY 361 AAAACACCAAAATGSCCTTACCTCCAAATCCAGGCAATTCCTAAGGTTGGCACTTGGAAAT 420  
Db 1524 AAAACACCAAAATGSCCTTACCTCCAAATCCAGGCAATTCCTAAGGTTGGCACTTGGAAAT 1583  
QY 421 ACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACCTGTCACTGCCGCTGGTCCCAATG 480  
Db 1584 ACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACCTGTCACTGCCGCTGGTCCCAATG 1643  
QY 481 CTACCTGCTCCCAATTAAGTACTTCCAAAACGAAAGGACACACGCAAAATTCGCCCA 540  
Db 1644 CTACCTGCTCCCAATTAAGTACTTCCAAAACGAAAGGACACACGCAAAATTCGCCCA 1703  
QY 541 GCCCTCTGGTATGTTATGCAAAATTTGCCAAGGAGCCCTCCCAATTCCTCAGGGCCAGTG 600  
Db 1704 GCCCTCTGGTATGTTATGCAAAATTTGCCAAGGAGCCCTCCCAATTCCTCAGGGCCAGTG 1763  
QY 601 TCACAGCCCTGATGAATCAGTGAATGGAAGAACAGTTACCTTGGAACTACTGGAATAG 660  
Db 1764 TCACAGCCCTGATGAATCAGTGAATGGAAGAACAGTTACCTTGGAACTACTGGAATAG 1823  
QY 661 GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATG 720  
Db 1824 GAGCAGGTGCTGATGCTACTAAGATGACGGTGTCTACTCAAGGTATTTTCAAACTTATG 1883  
QY 721 ACACGAATGGTAGATACAGTGTAAAGTGCGGGCTCTCGGAGGAGTTAACCCAGCCAGAC 780  
Db 1884 ACACGAATGGTAGATACAGTGTAAAGTGCGGGCTCTCGGAGGAGTTAACCCAGCCAGAC 1943  
QY 781 GGAGAGTATACCCAGCAGAGTGGACCACTGTATACCTGGCTGGATGAGATGATG 840  
Db 1944 GGAGAGTATACCCAGCAGAGTGGACCACTGTATACCTGGCTGGATGAGATGATG 2003  
QY 841 AAATACAAATGGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAG 900  
Db 2004 AAATACAAATGGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAG 2063  
QY 901 TGTGTTTCAGCAGAAACATCCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCTCAAAATGCTC 960  
Db 2064 TGTGTTTCAGCAGAAACATCCTCGGAGGCTCATTTTGTGGCTTCTGATGTCCTCAAAATGCTC 2123  
QY 961 CCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGACGCGGAATTCACGGG 1020  
Db 2124 CCATACCTGATCTCTCTCCACCTGGCCAAATCACCGACCTGACGCGGAATTCACGGG 2183  
QY 1021 GCAGTCTCATTAATCTGACTGGACAGCTCTCGGGGATGATTAATGACCATGGAACAGCTC 1080  
Db 2184 GCAGTCTCATTAATCTGACTGGACAGCTCTCGGGGATGATTAATGACCATGGAACAGCTC 2243  
QY 1081 ACAAGTATATCATTCGAATAGTACAGTATTTCTGTCTCAGAGCAAGTTCAATGAAT 1140  
Db 2244 ACAAGTATATCATTCGAATAGTACAGTATTTCTGTCTCAGAGCAAGTTCAATGAAT 2303  
QY 1141 CTCTTCAAGTGAATPACTCTCTCTATCCCAAGGAGGCAAACTCTCAGGAAGTCTTTT 1200  
Db 2304 CTCTTCAAGTGAATPACTCTCTCTATCCCAAGGAGGCAAACTCTCAGGAAGTCTTTT 2363  
QY 1201 TGTGTTAAACCAAGAAACATTAATTTTGAATAATGGCACAGATCTTTTTCATTGCTATTCAGG 1260

Db 2364 TGTGTTAAACCAAGAAACATTAATTTTGAATAATGGCACAGATCTTTTTCATTGCTATTCAGG 2423  
QY 1261 CTGTTGATAGGTGCACTGAAATCAGAAATATCAACATTCGACAGATCTTTTGTGTTTA 1320  
Db 2424 CTGTTGATAGGTGCACTGAAATCAGAAATATCAACATTCGACAGATCTTTTGTGTTTA 2483  
QY 1321 TTCCTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAACGCTCTGCTCCTCTGTCCTTA 1380  
Db 2484 TTCCTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAACGCTCTGCTCCTCTGTCCTTA 2543  
QY 1381 ATATTTCATATCAACAGCACCATTCTTGGCATTTCAATTTTAAAAATATGTGGAAGTGA 1440  
Db 2544 ATATTTCATATCAACAGCACCATTCTTGGCATTTCAATTTTAAAAATATGTGGAAGTGA 2603  
QY 1441 TAGGAGAACTCAGCTGTCAATAGCTAGGCTGAAATTTTGTGAGATAAAATAAATAA 1500  
Db 2604 TAGGAGAACTCAGCTGTCAATAGCTAGGCTGAAATTTTGTGAGATAAAATAAATAA 2663  
QY 1501 TCATTTCATCTCTTTTGTGATTATAAAATTTTCTAAATGATTTTCTAGACTTCTCTGTAGG 1560  
Db 2664 TCATTTCATCTCTTTTGTGATTATAAAATTTTCTAAATGATTTTCTAGACTTCTCTGTAGG 2723  
QY 1561 GGGCGATATATCTAAATGTATATAGTACATTTTATATCTAAATGATTTTCTGTAGGGGCGAT 1620  
Db 2724 GGGCGATATATCTAAATGTATATAGTACATTTTATATCTAAATGATTTTCTGTAGGGGCGAT 2783  
QY 1621 ATACTAAATGATTTTGTAGCTTCTGTAGGGGGGATGATAAATAAATGCTAAACACTGG 1680  
Db 2784 ATACTAAATGATTTTGTAGCTTCTGTAGGGGGGATGATAAATAAATGCTAAACACTGG 2843  
QY 1681 GTA 1683  
Db 2844 GTA 2846

## RESULT 2

US-09-823-356-25  
; Sequence 25, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PP-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 1683; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AACAAAGTGGTGGCCATCATCCACAGTGCCTTTGGGGCCCTCTGACGCTCAAGAACTAG 60

Db 1310 AACAAAGTGTGCGCATCATCCACACAGTCGCTTTGGGGCCCTCTCGAGCTCAAGACTAG 1369  
QY 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGATTGACAACA 120  
Db 1370 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGATTGACAACA 1429  
QY 121 ATGGCCTCATGTATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGCTGTCTCTCAGCGCT 180  
Db 1430 ATGGCCTCATGTATGCTTTTGGGGCCCTTTTCATCAGGAAATGAGCTGTCTCTCAGCGCT 1489  
QY 181 CCATCCAGCTTGAGAGTAGGGATTAACCTTCAGAACACGCCAGTGGATGGCACAG 240  
Db 1490 CCATCCAGCTTGAGAGTAGGGATTAACCTTCAGAACACGCCAGTGGATGGCACAG 1549  
QY 241 TGATCGTGACAGCACCGCTGGGAAAGGACACTTTGTTCTTATCATCCTGGACAAACGACG 300  
Db 1550 TGATCGTGACAGCACCGCTGGGAAAGGACACTTTGTTCTTATCATCCTGGACAAACGACG 1609  
QY 301 CTCGCCAAATCCTTCTCTGGGATCCCGAGTGGACAGAACGAAAGTGGCTTTGTAGTGACA 360  
Db 1610 CTCGCCAAATCCTTCTCTGGGATCCCGAGTGGACAGAACGAAAGTGGCTTTGTAGTGACA 1669  
QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGCACTTGGAAAT 420  
Db 1670 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGTGGCACTTGGAAAT 1729  
QY 421 ACAGTCTGCAACCAAGCTCACAAACCTTGACCCCTGACTGTCTACGTCCTCGTGCATG 480  
Db 1730 ACAGTCTGCAACCAAGCTCACAAACCTTGACCCCTGACTGTCTACGTCCTCGTGCATG 1789  
QY 481 CTACCTCGCTCCAAATACAGTGAATTCGCAAGAGCCTCCCAATTTCTCAGGGCCAGTG 600  
Db 1790 CTACCTCGCTCCAAATACAGTGAATTCGCAAGAGCCTCCCAATTTCTCAGGGCCAGTG 1849  
QY 541 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGAGCCTCCCAATTTCTCAGGGCCAGTG 600  
Db 1850 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGAGCCTCCCAATTTCTCAGGGCCAGTG 1909  
QY 601 TCACAGCCCTGATTAAGTGAATGAGTGAATGAGTGAATGAGTGAATGAGTGAATGAGT 660  
Db 1910 TCACAGCCCTGATTAAGTGAATGAGTGAATGAGTGAATGAGTGAATGAGTGAATGAGT 1969  
QY 661 GAGCAGTGTGATGCTACTAAGATGACGGTGTCTACTCAAGGTATTTTCAACATGATG 720  
Db 1970 GAGCAGTGTGATGCTACTAAGATGACGGTGTCTACTCAAGGTATTTTCAACATGATG 2029  
QY 721 ACAGCAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACGAC 780  
Db 2030 ACAGCAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACGAC 2089  
QY 781 GGAGAGTGTATCCCGACAGAGTGGAGCAGTGTACATACCTCGCTGGATTCAGATGATG 840  
Db 2090 GGAGAGTGTATCCCGACAGAGTGGAGCAGTGTACATACCTCGCTGGATTCAGATGATG 2149  
QY 841 AATATCAATGGAATCCACCAAGCTGAAATTAATAAGGATGATGTCAACACAAAGCAAG 900  
Db 2150 AATATCAATGGAATCCACCAAGCTGAAATTAATAAGGATGATGTCAACACAAAGCAAG 2209  
QY 901 TGTGTTTACAGAGNACATCTCGGGAGGCTCATTTTGGCTTCTGATGTCCCAATGCTC 960  
Db 2210 TGTGTTTACAGAGNACATCTCGGGAGGCTCATTTTGGCTTCTGATGTCCCAATGCTC 2269  
QY 961 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGCGAAATTCACGGGG 1020  
Db 2270 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGCGAAATTCACGGGG 2329  
QY 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACATGGGACGCTC 1080  
Db 2330 GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACATGGGACGCTC 2389  
QY 1081 ACAAGTATATCATTCGATTAAGTACAGTATTTCTTGATCTCAGAGACAAAGTCAATGAAT 1140

Db 2390 ACAAGTATATCATTCGAATAAAGTACAGTATTTCTTGATCTCAGAGACAAGTCAATGAAT 2449  
QY 1141 CTCTTCAAGTGAATACTACTGTCTCTCATCCCAAGGAGCAACTCTTGAGGAAGTCTTTT 1200  
Db 2450 CTCTTCAAGTGAATACTACTGTCTCTCATCCCAAGGAGCAACTCTTGAGGAAGTCTTTT 2509  
QY 1201 TGTTTAAACAGAAAACATTTACTTTTGAATAATGGCACAGATCTTTTCAATGCTATTCAAG 1260  
Db 2510 TGTTTAAACAGAAAACATTTACTTTTGAATAATGGCACAGATCTTTTCAATGCTATTCAAG 2569  
QY 1261 CTGTCATAGGTGCGATCTGAATCAGAATATCCAAATTTGCAACATTTGCAACGATCTTTTGA 1320  
Db 2570 CTGTCATAGGTGCGATCTGAATCAGAATATCCAAATTTGCAACATTTGCAACGATCTTTTGA 2629  
QY 1321 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCCTGATGAAACGTCCTCTTGTCTCTA 1380  
Db 2630 TTCTCTCCACAGACTCCGCCAGAGACACCTAGTCCTGATGAAACGTCCTCTTGTCTCTA 2689  
QY 1381 ATATTCAATCAACAGACCAATTCCTGGCAATTCACATTTTAAAAATTTATGTGGAAGTGA 1440  
Db 2690 ATATTCAATCAACAGACCAATTCCTGGCAATTCACATTTTAAAAATTTATGTGGAAGTGA 2749  
QY 1441 TAGGAGAACTGACGCTGCAATAGCTAGGCTGAATTTTGTGCAATATAAATAAATAA 1500  
Db 2750 TAGGAGAACTGACGCTGCAATAGCTAGGCTGAATTTTGTGCAATATAAATAAATAA 2809  
QY 1501 TCATTTCATCTCTTTTGTGATATAAATTTTCTAAAAATGATTTTGTAGACTTCTCTGTAG 1560  
Db 2810 TCATTTCATCTCTTTTGTGATATAAATTTTCTAAAAATGATTTTGTAGACTTCTCTGTAG 2869  
QY 1561 GGGCGATATCAATGATATATAGTACATTTATATAATGATTTTCTCTGAGGGGCGAT 1620  
Db 2870 GGGCGATATCAATGATATATAGTACATTTATATAATGATTTTCTCTGAGGGGCGAT 2929  
QY 1621 ATACTAAATGATTTTGTAGACTTCTGTTAGGGGCGATATAAATAAATAAATAAATAA 1680  
Db 2930 ATACTAAATGATTTTGTAGACTTCTGTTAGGGGCGATATAAATAAATAAATAAATAA 2989  
QY 1681 GTA 1683  
Db 2990 GTA 2992

## RESULT 3

US-09-981-353-191  
; Sequence 191, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 191  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CB1  
US-09-981-353-191

Query Match 100.0%; Score 1683; DB 9; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AACAAAGTGTGCGATCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1310 AACAAAGTGTGCGATCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1369



Qy 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 120  
Db 1370 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 1429  
Qy 121 ATGCGCTCATTTGATGCTTTTGGGCGCTTTTCATCAGGAAATGAGGCTGTCTCTCAGGCT 180  
Db 1430 ATGCGCTCATTTGATGCTTTTGGGCGCTTTTCATCAGGAAATGAGGCTGTCTCTCAGGCT 1489  
Qy 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCAGTGGGATGAATGGCAG 240  
Db 1490 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCAGTGGGATGAATGGCAG 1549  
Qy 241 TGATCGTGGACAGCACCGTGGGAAGGACATTTGTTTCTTATCACCTGGACAGGCGAGC 300  
Db 1550 TGATCGTGGACAGCACCGTGGGAAGGACATTTGTTTCTTATCACCTGGACAGGCGAGC 1609  
Qy 301 CTCCCAATCTCTCTGCGGATCCAGTGGACAGAACAGGCTGGCTTTGTAGTGGACA 360  
Db 1610 CTCCCAATCTCTCTGCGGATCCAGTGGACAGAACAGGCTGGCTTTGTAGTGGACA 1669  
Qy 361 AAAACACCAAAATGCGCTTACCTCCAAATCCCAAGCAATGCTTAAGTGGCACTTGGAAAT 420  
Db 1670 AAAACACCAAAATGCGCTTACCTCCAAATCCCAAGCAATGCTTAAGTGGCACTTGGAAAT 1729  
Qy 421 ACAGTCTGGAAGCAAGCTCAGAACTTGCACCTGACTGTCACTGCCGTCCGTCCTCAATG 480  
Db 1730 ACAGTCTGGAAGCAAGCTCAGAACTTGCACCTGACTGTCACTGCCGTCCGTCCTCAATG 1789  
Qy 481 CTACCTCGCTCCCAATACAGTGACTTCCAAACGAAACAGGACACCAAGCAATTTCCCA 540  
Db 1790 CTACCTCGCTCCCAATACAGTGACTTCCAAACGAAACAGGACACCAAGCAATTTCCCA 1849  
Qy 541 GCGCTCTGTAGTATGTAATATATTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTG 600  
Db 1850 GCGCTCTGTAGTATGTAATATATTCGCAAGGAGCTCCCAATTTCTCAGGCGCAGTG 1909  
Qy 601 TCACAGCCCTGATGTAATGAGTGAATGGAACAGTTACCTTGGAACTACTGGAATG 660  
Db 1910 TCACAGCCCTGATGTAATGAGTGAATGGAACAGTTACCTTGGAACTACTGGAATG 1969  
Qy 661 GAGCAGTGTGATGCTTACTAAGGATGAGGCTGTCTACTCAAGGTATTTTCAACACTATG 720  
Db 1970 GAGCAGTGTGATGCTTACTAAGGATGAGGCTGTCTACTCAAGGTATTTTCAACACTATG 2029  
Qy 721 ACACGAATGATAGATACAGTGTAAAAGTGGGCTCTGGAGGAGTTAAGCGAGCCAGAC 780  
Db 2030 ACACGAATGATAGATACAGTGTAAAAGTGGGCTCTGGAGGAGTTAAGCGAGCCAGAC 2089  
Qy 781 GGAGAGTATACCCAGCAGAGTGGAGCTGTACATACCTGCTGATTTGAGAAATG 840  
Db 2090 GGAGAGTATACCCAGCAGAGTGGAGCTGTACATACCTGCTGATTTGAGAAATG 2149  
Qy 841 AATATCAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTTCAACCAAGCAAG 900  
Db 2150 AATATCAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTTCAACCAAGCAAG 2209  
Qy 901 TGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCAATGCTC 960  
Db 2210 TGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCAATGCTC 2269  
Qy 961 CCATACCTGATCTCTCCACCTGGCCAAATCACGACCTGAAGCGGGAATTCACGGGG 1020  
Db 2270 CCATACCTGATCTCTCCACCTGGCCAAATCACGACCTGAAGCGGGAATTCACGGGG 2329  
Qy 1021 GCAGTCTCAATTAATCTGACTTGGACAGCTCTCGGAGTGAATTAATGACATGGAAACAGCTC 1080  
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Qy 1081 ACAAGTATATCAATTCGAATAGTACAGATTTCTTGAATCTCAGACAGAGTTTCAATGAAT 1140  
Db 2390 ACAAGTATATCAATTCGAATAGTACAGATTTCTTGAATCTCAGACAGAGTTTCAATGAAT 2449  
Qy 1141 CTCTTCAGTGAATFACTCTCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTT 1200

Db 2450 CTCTTCAGTGAATFACTCTCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTT 2509  
Qy 1201 TGTTTAAACAGAAAAATTTTGAATGCGACAGATCTTTTCAATGCTATTCAGG 1260  
Db 2510 TGTTTAAACAGAAAAATTTTGAATGCGACAGATCTTTTCAATGCTATTCAGG 2569  
Qy 1261 CTGTTGATAAGTGCATCTGAAATCAGAAATATCAACATTCGACAGAGTATCTTTGTTTA 1320  
Db 2570 CTGTTGATAAGTGCATCTGAAATCAGAAATATCAACATTCGACAGAGTATCTTTGTTTA 2629  
Qy 1321 TTCTTCCACAGACTCCGCGACAGACACCTAGTCTCTGATGAAACGCTCTCTCTTCTCTA 1380  
Db 2630 TTCTTCCACAGACTCCGCGACAGACACCTAGTCTCTGATGAAACGCTCTCTCTTCTCTA 2689  
Qy 1381 ATATTATATCAACAGACACCAATTCCTGCAATTCATTTTAAATAATATGTGGAGTGA 1440  
Db 2690 ATATTATATCAACAGACACCAATTCCTGCAATTCATTTTAAATAATATGTGGAGTGA 2749  
Qy 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAAATTTTGTGACAGATAAATAATAA 1500  
Db 2750 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAAATTTTGTGACAGATAAATAATAA 2809  
Qy 1501 TCATTTCATCTTTTGTGATTAATAATTTTCTAATAATGATTTTGTAGACTTCTCTGAGG 1560  
Db 2810 TCATTTCATCTTTTGTGATTAATAATTTTCTAATAATGATTTTGTAGACTTCTCTGAGG 2869  
Qy 1561 GGGCGATATCTAATATGATATAGTACATTTTAAATGATTTTGTAGACTTCTCTGAGGCGAT 1620  
Db 2870 GGGCGATATCTAATATGATATAGTACATTTTAAATGATTTTGTAGACTTCTCTGAGGCGAT 2929  
Qy 1621 ATACTAAATGATTTTGTAGACTTCTCTGAGGCGGATAAATAATAATAATAATAA 1680  
Db 2930 ATACTAAATGATTTTGTAGACTTCTCTGAGGCGGATAAATAATAATAATAATAA 2989  
Qy 1681 GTA 1683  
Db 2990 GTA 2992

RESULT 4  
US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994  
; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25

Query Match 100.0%; Score 1683; DB 15; Length 3111;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AACAAAGTGTGGCAATCATCCACAGTCCCTTTGGGCGCTCTGAGCTCAAGAACTAG 60  
Db 1310 AACAAAGTGTGGCAATCATCCACAGTCCCTTTGGGCGCTCTGAGCTCAAGAACTAG 1369  
Qy 61 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAAC 120

Db 1370 AGGAGCTGTCCAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAC 1429  
QY 121 ATGGCCCTCATGTGCTTTTGGGCCCTTTTCATCAGGAATGAGGCTGTCTCTCAGCGCT 180  
Db 1430 ATGGCCCTCATGTGCTTTTGGGCCCTTTTCATCAGGAATGAGGCTGTCTCTCAGCGCT 1489  
QY 181 CCATCCAGCTTGAGCTTAAGGATTAACCTTCAGAACAGCCAGTGGATGAATGGCACAG 240  
Db 1490 CCATCCAGCTTGAGCTTAAGGATTAACCTTCAGAACAGCCAGTGGATGAATGGCACAG 1549  
QY 241 TGATCTGTGACAGCACCGTGGGAAAGACACTTTGTTCTTATCATCCTGTGACAAAGCAGC 300  
Db 1550 TGATCTGTGACAGCACCGTGGGAAAGACACTTTGTTCTTATCATCCTGTGACAAAGCAGC 1609  
QY 301 CTCCCAAAATCTTCTCTGGATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACA 360  
Db 1610 CTCCCAAAATCTTCTCTGGATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACA 1669  
QY 361 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCACTTGGAAAT 420  
Db 1670 AAAACACCAAAATGGCTACCTCCAAATCCAGGCAATGCTAAGGTGGCACTTGGAAAT 1729  
QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTCTCAGTCCCGTGGTCCOATG 480  
Db 1730 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTGCTCAGTCCCGTGGTCCOATG 1789  
QY 481 CTACCTGCTCCAAATTCAGTGACTTCCAAACGAAACAGGACACCAAAATCCCCA 540  
Db 1790 CTACCTGCTCCAAATTCAGTGACTTCCAAACGAAACAGGACACCAAAATCCCCA 1849  
QY 541 GCCCTCTGTGATGTTATGCAATATTCGCCAAGGAGCTTCCCAATTCAGGGCCAGTG 600  
Db 1850 GCCCTCTGTGATGTTATGCAATATTCGCCAAGGAGCTTCCCAATTCAGGGCCAGTG 1909  
QY 601 TCACAGCCCTGATTGAATCAGTGAATGGAACACAGTACCTTGAATCTGGAATGATG 660  
Db 1910 TCACAGCCCTGATTGAATCAGTGAATGGAACACAGTACCTTGAATCTGGAATGATG 1969  
QY 661 GAGCAGGTGCTGATGCTACTAAGATGACGCTGTCTACTCAAGGTATTTTCAAACTTATG 720  
Db 1970 GAGCAGGTGCTGATGCTACTAAGATGACGCTGTCTACTCAAGGTATTTTCAAACTTATG 2029  
QY 721 ACAGGAATGTTAGATACAGTGTAAAGTGGGCTCTGGGAGGAGTTAAACGACGAC 780  
Db 2030 ACAGGAATGTTAGATACAGTGTAAAGTGGGCTCTGGGAGGAGTTAAACGACGAC 2089  
QY 781 GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGGCTGGATGAGATGATG 840  
Db 2090 GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGGCTGGATGAGATGATG 2149  
QY 841 AAATACGAATGGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAG 900  
Db 2150 AAATACGAATGGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACAGCAAG 2209  
QY 901 TGTGTTTTCAGCAACATCTCGGAGGCTCATTTTGGGCTTCTGATGTCCTCAAAATGCTC 960  
Db 2210 TGTGTTTTCAGCAACATCTCGGAGGCTCATTTTGGGCTTCTGATGTCCTCAAAATGCTC 2269  
QY 961 CCATACCTGATCTTTCACCTGGCCAAATACCCAGCCTGAGGGGGAATTCAGGGG 1020  
Db 2270 CCATACCTGATCTTTCACCTGGCCAAATACCCAGCCTGAGGGGGAATTCAGGGG 2329  
QY 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATTTAGCCATGGAACAGCTC 1080  
Db 2330 GCAGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATTTAGCCATGGAACAGCTC 2389  
QY 1081 ACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGAGCAAGTTCAATGAAT 1140  
Db 2390 ACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGAGCAAGTTCAATGAAT 2449  
QY 1141 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCACTCTGAGGAAGTCTTTT 1200  
Db 2450 CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCACTCTGAGGAAGTCTTTT 2509

QY 1201 TGTTTAAACAGAAAAATTTTGAATATGACAGATCTTTTTCATTTCTTATTCAGG 1260  
Db 2510 TGTTTAAACAGAAAAATTTTGAATATGACAGATCTTTTTCATTTCTTATTCAGG 2569  
QY 1261 CTGTGTAGTGGTTCGATCTGAAATAGAAATATCCAACTTGCACGAGTATCTTTGTTTA 1320  
Db 2570 CTGTGTAGTGGTTCGATCTGAAATAGAAATATCCAACTTGCACGAGTATCTTTGTTTA 2629  
QY 1321 TTCTCTCAGACACTCCGCCAGACACCTAGTCTCTGATGAAAGTGTGCTTCTTCTTA 1380  
Db 2630 TTCTCTCAGACACTCCGCCAGACACCTAGTCTCTGATGAAAGTGTGCTTCTTCTTA 2689  
QY 1381 ATATTCATATCAACAGACACCAATTTCTTGGCATTCACATTTTAAATTTAGTGAAGTGA 1440  
Db 2690 ATATTCATATCAACAGACACCAATTTCTTGGCATTCACATTTTAAATTTAGTGAAGTGA 2749  
QY 1441 TAGGGAACCTGAGCTGTCAATAGCTAGGCTGAATTTTGTGATGAAATATAAATAA 1500  
Db 2750 TAGGGAACCTGAGCTGTCAATAGCTAGGCTGAATTTTGTGATGAAATATAAATAA 2809  
QY 1501 TCATTCATCTTTTGTGATTAATAATTTTCTTAAATTTAGTGAAGTGTGCTTCTTCTTA 1560  
Db 2810 TCATTCATCTTTTGTGATTAATAATTTTCTTAAATTTAGTGAAGTGTGCTTCTTCTTA 2869  
QY 1561 GGGCGATATCTAAATGTATATAGTACATTTTAAATGTATTTCTGAGGGGCGAT 1620  
Db 2870 GGGCGATATCTAAATGTATATAGTACATTTTAAATGTATTTCTGAGGGGCGAT 2929  
QY 1621 ATACTAAATGTATTTTAGACTTCTGTAGGGGCGATATAAATAAATAAATAAATAA 1680  
Db 2930 ATACTAAATGTATTTTAGACTTCTGTAGGGGCGATATAAATAAATAAATAAATAA 2989  
QY 1681 GTA 1683  
Db 2990 GTA 2992

## RESULT 5

US-09-764-868-22  
; Sequence 22, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PTZ32  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 22  
; LENGTH: 3267  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-764-868-22

Query Match 100.0%; Score 1683; DB 9; Length 3267;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1683; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAAGTGGTGGCCATCCACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGACTAG 60  
Db 1311 ACAAAGTGGTGGCCATCCACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGACTAG 1370  
QY 61 AGGAGCTGTCCAAATAGCAGGAGTTTACACATATGCTTCAGATCAAGTTCAACA 120  
Db 1371 AGGAGCTGTCCAAATAGCAGGAGTTTACACATATGCTTCAGATCAAGTTCAACA 1430  
QY 121 ATGGGCTCATTCATCTTTTGGGGCCCTTTCTATCAGGAAATGGAGCTGTCTCTCAGCGCT 180  
Db 1431 ATGGGCTCATTCATCTTTTGGGGCCCTTTCTATCAGGAAATGGAGCTGTCTCTCAGCGCT 1490

QY	181	CCATCCAGCTTGAGAGTAAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	240
Db	1491	CCATCCAGCTTGAGAGTAAAGGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	1550
QY	241	TGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACTGGACAAAGCAGC	300
Db	1551	TGATCGTGGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCACTGGACAAAGCAGC	1610
QY	301	CTCCCCAAATCCTTCTCTGGGATCCCAAGTCCAGAGCAAGTGGCTTTGTAGTGGACA	360
Db	1611	CTCCCCAAATCCTTCTCTGGGATCCCAAGTCCAGAGCAAGTGGCTTTGTAGTGGACA	1670
QY	361	AAAACACCAAAATGGCTTACCTCCAAATCCAGAGCAATGTCTAAAGTTGGCACTTGGAAAT	420
Db	1671	AAAACACCAAAATGGCTTACCTCCAAATCCAGAGCAATGTCTAAAGTTGGCACTTGGAAAT	1730
QY	421	ACAGTCTCAAGCAAGCTTCAAAACCTTGACCTTGAATGTCTCACTCCGCTGGCTCAATG	480
Db	1731	ACAGTCTCAAGCAAGCTTCAAAACCTTGACCTTGAATGTCTCACTCCGCTGGCTCAATG	1790
QY	481	CTACCTCGCTTCAATTAAGTACTTCCAAACGAAACAGGACACAGCAAAATTCGCCA	540
Db	1791	CTACCTCGCTTCAATTAAGTACTTCCAAACGAAACAGGACACAGCAAAATTCGCCA	1850
QY	541	GCCCTCTGGTAGTTATCCAAATATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG	600
Db	1851	GCCCTCTGGTAGTTATCCAAATATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG	1910
QY	601	TCACAGCCCTGATTCGAATCAGTGAATGGAAACAGTTTACCTTGGAACTACTGGATATG	660
Db	1911	TCACAGCCCTGATTCGAATCAGTGAATGGAAACAGTTTACCTTGGAACTACTGGATATG	1970
QY	661	GAGCAGGTCTGATGCTACTAAGATGACGGTGTCTACTCAAGTATTTTCACACTTATG	720
Db	1971	GAGCAGGTCTGATGCTACTAAGATGACGGTGTCTACTCAAGTATTTTCACACTTATG	2030
QY	721	ACAGAAATGGTAGATACAGTGTAAAGTTCGGGCTCTGGAGAGCTTAAACGAGCCAGAC	780
Db	2031	ACAGAAATGGTAGATACAGTGTAAAGTTCGGGCTCTGGAGAGCTTAAACGAGCCAGAC	2090
QY	781	GGAGAGTGATACCCACAGCAGAGTGGAGCACTGTACATACCTCGCTGGATTTGAGATATG	840
Db	2091	GGAGAGTGATACCCACAGCAGAGTGGAGCACTGTACATACCTCGCTGGATTTGAGATATG	2150
QY	841	AAATACAAATGGAATCCACCAAGACCTGAAATTAATGAAGATGATTTCAACACAGCAAG	900
Db	2151	AAATACAAATGGAATCCACCAAGACCTGAAATTAATGAAGATGATTTCAACACAGCAAG	2210
QY	901	TGTGTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGCTTCTGATGTCCTCAAAATGCTC	960
Db	2211	TGTGTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGCTTCTGATGTCCTCAAAATGCTC	2270
QY	961	CCATACCTGATCTCTCCCACTGGCCAAATCCAGACCTGAAAGGCGGAAATTCAGGGG	1020
Db	2271	CCATACCTGATCTCTCCCACTGGCCAAATCCAGACCTGAAAGGCGGAAATTCAGGGG	2330
QY	1021	GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCATGGACAGCTC	1080
Db	2331	GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCATGGACAGCTC	2390
QY	1081	ACAAGTATATCATTTGAAATAGTACAGTATCTTTGATCTCAGACAGCAAGTTCAATGAAT	1140
Db	2391	ACAAGTATATCATTTGAAATAGTACAGTATCTTTGATCTCAGACAGCAAGTTCAATGAAT	2450
QY	1141	CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCAACTCTGAGGAAAGTCTTTT	1200
Db	2451	CTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCAACTCTGAGGAAAGTCTTTT	2510
QY	1201	TGTTTAAACCAAGAAACATTAATCTTTTGAATGGACAGATCTTTTCAATGCTATTACAG	1260
Db	2511	TGTTTAAACCAAGAAACATTAATCTTTTGAATGGACAGATCTTTTCAATGCTATTACAG	2570
QY	1261	CTGTGTAAGTTCGATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTTA	1320



1748 ATGGCCTCAATTGATGCTTTTGGGGCCCTTTTATCAGGAATGAGCTGTCTCTCAGCGCT 1807 Db  
181 CCATCCAGCTTGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGAATGGCAAG 240 Qy  
1808 CCATCCAGCTTGAGTAAGGATTAACCTCCAGAACAGCAGCTGGATGAATGGCAAG 1867 Db  
241 TGATCGTGGACAGACCGCTGGGAAAGGACATTTTGTCTTATACCTCTGGACAGCGAGC 300 Qy  
1868 TGATCGTGGACAGACCGCTGGGAAAGGACATTTTGTCTTATACCTCTGGACAGCGAGC 1927 Db  
301 CTCCCAAATCTTCTCTGGATCCAGTGGACAGCAAGCTGGCTTTGTAGTGACA 360 Qy  
1928 CTCCCAAATCTTCTCTGGATCCAGTGGACAGCAAGCTGGCTTTGTAGTGACA 1987 Db  
361 AAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT 420 Qy  
1988 AAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT 2047 Db  
421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGATGTACGCTCCGCTGGCTCAATG 480 Qy  
2048 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGATGTACGCTCCGCTGGCTCAATG 2107 Db  
481 CTACCTGCTGCAATTAAGTACAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 2287 Qy  
2108 CTACCTGCTGCAATTAAGTACAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 2287 Db  
541 GCCTCTGCTGATTTATGCAATATTCGCAAGAGGCTCCCAATTTCTCAGGGCCAGTG 600 Qy  
2168 GCCTCTGCTGATTTATGCAATATTCGCAAGAGGCTCCCAATTTCTCAGGGCCAGTG 2227 Db  
601 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 660 Qy  
2228 TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 2287 Db  
661 GAGCAGTCTGATGCTTACTAAGTACAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 720 Qy  
2288 GAGCAGTCTGATGCTTACTAAGTACAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 2347 Db  
721 ACAGTAATGTAGTACAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 780 Qy  
2348 ACAGTAATGTAGTACAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 2407 Db  
781 GGAGAGTGATACCCAGCAGAGTGGAGCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 840 Qy  
2408 GGAGAGTGATACCCAGCAGAGTGGAGCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGATAATG 2467 Db  
841 AAATACAAATGGAATCCACCAAGAGCTGAAATTAATAGGATGATGTTCAACACAGCAAG 900 Qy  
2468 AAATACAAATGGAATCCACCAAGAGCTGAAATTAATAGGATGATGTTCAACACAGCAAG 2527 Db  
901 TGTGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTC 960 Qy  
2528 TGTGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTC 2587 Db  
961 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACTGAAGCGGAAATTCACGGG 1020 Qy  
2588 CCATACCTGATCTCTTCCCACTGGCCAAATCACCGACTGAAGCGGAAATTCACGGG 2647 Db  
1021 CGAGTCTCAATTAATCTGACTGGACAGCTCTCTGGGATGATTAATGACCATGGAACAGCTC 1080 Qy  
2648 CGAGTCTCAATTAATCTGACTGGACAGCTCTCTGGGATGATTAATGACCATGGAACAGCTC 2707 Db  
1081 ACAAGTATATCATTCGAATAAGTACAAGTATTTCTGATCTCAGACAAAGTTCAATGAT 1140 Qy  
2708 ACAAGTATATCATTCGAATAAGTACAAGTATTTCTGATCTCAGACAAAGTTCAATGAT 2767 Db  
1141 CTCTTCAAGTAATTAATCTGCTCTCATCCCAAGGAGCAACTCTGAGGAGTCTTTT 1200 Qy  
2768 CTCTTCAAGTAATTAATCTGCTCTCATCCCAAGGAGCAACTCTGAGGAGTCTTTT 2827 Db  
1201 TGTTTAAACCAAGAAACATTTACTTTTGAAATGGCACAGATCTTTTCAATGCTATTCAGG 1260 Qy  
2828 TGTTTAAACCAAGAAACATTTACTTTTGAAATGGCACAGATCTTTTCAATGCTATTCAGG 2887 Db

1261 CTGTTGATAAGTGCATCTCAAAATCAGAAATATCCAAATTCAGAGTATCTTTGTTTA 1320 Qy  
2888 CTGTTGATAAGTGCATCTCAAAATCAGAAATATCCAAATTCAGAGTATCTTTGTTTA 2947 Db  
1321 TTCTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAACGCTCTGCTCTCTTGTCTTA 1380 Qy  
2948 TTCTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAACGCTCTGCTCTCTTGTCTTA 3007 Db  
1381 ATATTCTATATCAACAGACCACTTCTGGCAATTCACATTTTAAATAATATGGAAGTGA 1440 Qy  
3008 ATATTCTATATCAACAGACCACTTCTGGCAATTCACATTTTAAATAATATGGAAGTGA 3067 Db  
1441 TAGGAGAACTGCAGCTGCTCAATAGCCTAGGCTGAAATTTTGTCTGATGAAATATAA 1500 Qy  
3068 TAGGAGAACTGCAGCTGCTCAATAGCCTAGGCTGAAATTTTGTCTGATGAAATATAA 3127 Db  
1501 TCATTCTATCTTTTGTGATATATAAATTTCTAAATGATTTTGTAGACTTCTGTAGG 1560 Qy  
3128 TCATTCTATCTTTTGTGATATATAAATTTCTAAATGATTTTGTAGACTTCTGTAGG 3186 Db  
1561 GGGCGATATATAAATGATATAGTACATTTTATACTAAATGATTTCTGTAGGGCGAT 1620 Qy  
3187 GGGCGATATATAAATGATATAGTACATTTTATACTAAATGATTTCTGTAGGGCGAT 3246 Db  
1621 ATACTAAATGATTTTGTAGACTTCTGTAGGGCGATATAAATAAATGCTTAACTAG 1680 Qy  
3247 ATACTAAATGATTTTGTAGACTTCTGTAGGGCGATATAAATAAATGCTTAACTAG 3306 Db  
1681 GTA 1683 Qy  
3307 GTA 3309 Db

RESULT 8  
US-09-833-263-1056  
; Sequence 1056, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-833-263-1056

Query Match 99.3%; Score 1671; DB 9; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 AACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTCCCATCATCCACAGTCGCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1687  
Qy 61 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 120  
Db 1688 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 1747  
Qy 121 ATGGGCTCATGATGCTTTTGGGGCCCTTTTATCAGGAAATGAGCTGTCTCTCAGCGCT 180  
Db 1748 ATGGGCTCATGATGCTTTTGGGGCCCTTTTATCAGGAAATGAGCTGTCTCTCAGCGCT 1807  
Qy 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACCAAGCTGAGTGAATGGCAAG 240

Db 1808 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCAGAACAGCCAGTGGATGAATGCCACAG 1867  
QY 241 TGATCGTGGACAGCACCGTGGAAAGGACACTTTGTTCTTATCACCCTGGACAGCGAGC 300  
Db 1868 TGATCGTGGACAGCACCGTGGAAAGGACACTTTGTTCTTATCACCCTGGACAGCGAGC 1927  
QY 301 CTCCCCAAATCCTTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA 360  
Db 1928 CTCCCCAAATCCTTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA 1987  
QY 361 AAAACACCAAATGSCCTACCTCCAAATCCAGGCAATGCTTAAGTGGCACTTGGAAAT 420  
Db 1988 AAAACACCAAATGSCCTACCTCCAAATCCAGGCAATGCTTAAGTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTCCAGCTCCCGTCCGATG 480  
Db 2048 ACAGTCTGCAAGCAAGCTCACAACCTTGACCCCTGACTGTCCAGCTCCCGTCCGATG 2107  
QY 481 CTACCCCTGCTCCAAATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 540  
Db 2108 CTACCCCTGCTCCAAATTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2167  
QY 541 GCCTCTGCTGAGTATATGCAAAATATTCGCAAGAGCTCCCAATTTCTCAGGCGCAGTG 600  
Db 2168 GCCTCTGCTGAGTATATGCAAAATATTCGCAAGAGCTCCCAATTTCTCAGGCGCAGTG 2227  
QY 601 TCACGCCCTGATGTAATCAGTGAATGCAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2287  
Db 2228 TCACGCCCTGATGTAATCAGTGAATGCAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2347  
QY 721 ACACGAATCGTAGATACAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 780  
Db 2348 ACACGAATCGTAGATACAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2407  
QY 781 GGAGAGTGAATCCCAAGAGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2467  
Db 2468 AAATCAATGGAATCCCAAGAGCTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 900  
QY 901 TGTGTTTCAGCAGAACATCTCGGGAGGCTCATTTTGTGGCTTCTGATGCCAAATGCTC 960  
Db 2528 TGTGTTTCAGCAGAACATCTCGGGAGGCTCATTTTGTGGCTTCTGATGCCAAATGCTC 2587  
QY 961 CCATACCTGATCTCTTCCCACTGGCCAAATCACCAGCTCAAGCGGGAATTTCAACGAGCAAG 1020  
Db 2588 CCATACCTGATCTCTTCCCACTGGCCAAATCACCAGCTCAAGCGGGAATTTCAACGAGCAAG 1080  
QY 1021 GCAGTCTCAATTAATGACCTGGAGCTCTCGGGATGATTATGACCATGGAACAGCTC 1080  
Db 2648 GCAGTCTCAATTAATGACCTGGAGCTCTCGGGATGATTATGACCATGGAACAGCTC 2707  
QY 1081 ACAAGTATATCATTCGAATAGTACAAGTATCTTGATCTCAGAGCAAGTTCGAATGAAT 1140  
Db 2708 ACAAGTATATCATTCGAATAGTACAAGTATCTTGATCTCAGAGCAAGTTCGAATGAAT 2767  
QY 1141 CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAGTCTTTT 1200  
Db 2768 CTCTTCAAGTGAATPACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAGTCTTTT 2827  
QY 1201 TGTTTAAACAGAAACATTTACCTTTGAAATGGCAAGATCTTTTTCATGCTATTTCAGG 1260  
Db 2828 TGTTTAAACAGAAACATTTACCTTTGAAATGGCAAGATCTTTTTCATGCTATTTCAGG 2887  
QY 1261 CTGTGATAGTTCGATCTGAATCAGAAATATCCAACTGACGAGTATCTTTGTTA 1320

Db 2888 CTGTTGTAAGTTCGATCTGAATCAGAAATCAGAAATATCCAACTTGCACGAGTAICTTTGTTTA 2947  
QY 1321 TTCTTCCACAGACTCCGCGCAGACACCTAGTCTCCTGATGAACCGTCTGCTCTCTGCTCCTTA 1380  
Db 2948 TTCTTCCACAGACTCCGCGCAGACACCTAGTCTCCTGATGAACCGTCTGCTCTCTGCTCCTTA 3007  
QY 1381 ATATTATATCAACAGACACCACTTCTGCTGATTCATTTTAAATTTATGGAAGTGA 1440  
Db 3008 ATATTATATCAACAGACACCACTTCTGCTGATTCATTTTAAATTTATGGAAGTGA 3067  
QY 1441 TAGGAGAACTGCAGCTCTCAATAGCTAGGCTGAATTTTGTGATGAATAAATAA 1500  
Db 3068 TAGGAGAACTGCAGCTCTCAATAGCTAGGCTGAATTTTGTGATGAATAAATAA 3127  
QY 1501 TCATTTCATCTTTTCTTTTGAATTAATAATTTCTTAAATGATTTTACAGCTTCTGCTAGG 1560  
Db 3128 TCATTTCATCTTTTCTTTTGAATTAATAATTTCTTAAATGATTTTACAGCTTCTGCTAGG 3186  
QY 1561 GGCGGATATCTAAATGATATATAGTATATATACTAAATGATTTCTGTAGGGCGGAT 1620  
Db 3187 GGCGGATATCTAAATGATATATAGTATATATACTAAATGATTTCTGTAGGGCGGAT 3246  
QY 1621 ATACTAAATGATTTTACAGCTTCTGTAGGGCGGATTAATAAATAAATAAATAAATAA 1680  
Db 3247 ATACTAAATGATTTTACAGCTTCTGTAGGGCGGATTAATAAATAAATAAATAAATAA 3306  
QY 1681 GTA 1683  
Db 3307 GTA 3309

## RESULT 9

US-10-025-380-1056  
; Sequence 1056, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-1056

Query Match 99.3%; Score 1671; DB 13; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGTGCTCATCCATCCACAGTCTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGTGCTCATCCATCCACAGTCTTGGGGCCCTCTGAGCTCAAGAACTAG 1687

Db	2768	CTCTTCAAGTGAATCTACTGCTCTCTCATCCAAAGGAAGCAACTCTGAGGAAGTCTTTT	2827
Qy	1201	TGTTTAAACAGAAAACATTACTTTTGAATAATGSCACAGATCTTTTTCATTGCTATTGAGG	1260
Db	2828	TGTTTAAACAGAAAACATTACTTTTGAATAATGSCACAGATCTTTTTCATTGCTATTGAGG	2887
Qy	1261	CTGTTGATAAGGTGCGATCTGAAATCAGAAATATCAACATTGCAAGAGTATCTTTTGTATA	1320
Db	2888	CTGTTGATAAGGTGCGATCTGAAATCAGAAATATCAACATTGCAAGAGTATCTTTTGTATA	2947
Qy	1321	TTCTTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAGACGCTCTCTCTGCTGCTA	1380
Db	2948	TTCTTCCACAGACTCCGCCAGAGACACTAGTCTGATGAAGACGCTCTCTCTGCTGCTA	3007
Qy	1381	ATATTTCATATCAACAGACCACTTCTGGCAATTCACATTTTAAAAATATGTGGAAGTGA	1440
Db	3008	ATATTTCATATCAACAGACCACTTCTGGCAATTCACATTTTAAAAATATGTGGAAGTGA	3067
Qy	1441	TAGGAGAACTGCGAGCTGCAATAGCTAGGCTGAAATTTTGTGATGATGGAATAATAA	1500
Db	3068	TAGGAGAACTGCGAGCTGCAATAGCTAGGCTGAAATTTTGTGATGATGGAATAATAA	3127
Qy	1501	TCATTTCATCTTTTGTGATGATGGAATAATAAATTTTCTAAATGATTTTGTGATGATG	1560
Db	3128	TCATTTCATCTTTTGTGATGATGGAATAATAAATTTTCTAAATGATTTTGTGATGATG	3186
Qy	1561	GGGCGGATATCTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG	1620
Db	3187	GGGCGGATATCTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG	3246
Qy	1621	ATATAAATGATTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG	1680
Db	3247	ATATAAATGATTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG	3306
Qy	1681	GTA 1683	
Db	3307	GTA 3309	

RESULT 10

US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-11

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy	1	AACAAAGTGGTCCCATCATCCACAGTCGCTTTTGGGGCCCTCTGACGCTCAAGAACTAG	60
Db	1628	AACAAAGTGGTCCCATCATCCACAGTCGCTTTTGGGGCCCTCTGACGCTCAAGAACTAG	1687
Qy	61	AGGAGCTGTCCAAAATGACAGAGGTTTACAGATATGCTTCAGATCAAGTTCAAGACA	120
Db	1688	AGGAGCTGTCCAAAATGACAGAGGTTTACAGATATGCTTCAGATCAAGTTCAAGACA	1747
Qy	121	ATGGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGAGGCTGTCTCTCAGCGCT	180

Qy	61	AGGAGCTGTCCAAAATGACAGAGGTTTACAGATATGCTTCAGATCAAGTTCAAGACA	120
Db	1688	AGGAGCTGTCCAAAATGACAGAGGTTTACAGATATGCTTCAGATCAAGTTCAAGACA	1747
Qy	121	ATGGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGAGGCTGTCTCTCAGCGCT	180
Db	1748	ATGGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGAGGCTGTCTCTCAGCGCT	1807
Qy	181	CCATCCAGCTTGAGAGTAAGGATTAACCTTCCAGAACAGCAGTGGATGAATGGCACAG	240
Db	1808	CCATCCAGCTTGAGAGTAAGGATTAACCTTCCAGAACAGCAGTGGATGAATGGCACAG	1867
Qy	241	TGATCGTGGACAGACCGTGGGAAAGGACACTTTTGTCTTATACCTTGGACAGCGGAC	300
Db	1868	TGATCGTGGACAGACCGTGGGAAAGGACACTTTTGTCTTATACCTTGGACAGCGGAC	1927
Qy	301	CTCCCAAAATCTTCTTGGGATCCAGTGGACAGCAAGTGGCTTTTGTAGTGGACA	360
Db	1928	CTCCCAAAATCTTCTTGGGATCCAGTGGGACAGCAAGTGGCTTTTGTAGTGGACA	1987
Qy	361	AAAAACCAAAATGGCTTACCTCCAAATCCCAAGGCAATGCTAAGTGGCACTTGGAAAT	420
Db	1988	AAAAACCAAAATGGCTTACCTCCAAATCCCAAGGCAATGCTAAGTGGCACTTGGAAAT	2047
Qy	421	ACAGTCTGCAAGCAAGCTCACAACCTTGACCTGATGCTACGCTCCGCTGCTCAATG	480
Db	2048	ACAGTCTGCAAGCAAGCTCACAACCTTGACCTGATGCTACGCTCCGCTGCTCAATG	2107
Qy	481	CTACCTGCTGCTCAATTAAGTACGTTCCAAACAGCAAGGACACAGCAATTTCCCA	540
Db	2108	CTACCTGCTGCTCAATTAAGTACGTTCCAAACAGCAAGGACACAGCAATTTCCCA	2167
Qy	541	GCCTCTGCTGATTTATGAAATATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG	600
Db	2168	GCCTCTGCTGATTTATGAAATATTCGCAAGGAGCTCCCAATTTCTCAGGGCCAGTG	2227
Qy	601	TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGAATG	660
Db	2228	TCACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGGAATG	2287
Qy	661	GAGAGGTGCTGATGCTTAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT	720
Db	2288	GAGAGGTGCTGATGCTTAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT	2347
Qy	721	ACAGGATGTAGATACAGTGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAAT	780
Db	2348	ACAGGATGTAGATACAGTGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAAT	2407
Qy	781	GGAGAGTGATACCCAGAGTGGAGCAGTGTACATACCTGCTGGAGGAGTAAAGCAGCAG	840
Db	2408	GGAGAGTGATACCCAGAGTGGAGCAGTGTACATACCTGCTGGAGGAGTAAAGCAGCAG	2467
Qy	841	AAATACATGGAATCCACAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG	900
Db	2468	AAATACATGGAATCCACAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAG	2527
Qy	901	TGTGTTTTCAGAGAACATCTCTGGAGGCTCATTTTGTGCTTCTGATGCTCCCAATGCTC	960
Db	2528	TGTGTTTTCAGAGAACATCTCTGGAGGCTCATTTTGTGCTTCTGATGCTCCCAATGCTC	2587
Qy	961	CCATACCTGATCTTCTCCCACTGCGCAATACCGAGCTGAAGCGGAATTCACGGGG	1020
Db	2588	CCATACCTGATCTTCTCCCACTGCGCAATACCGAGCTGAAGCGGAATTCACGGGG	2647
Qy	1021	GCAGTCTCAATTAATCTGAGTGGAGCTCTCTGGGGATGATTTATGACCATGGAACAGCTC	1080
Db	2648	GCAGTCTCAATTAATCTGAGTGGAGCTCTCTGGGGATGATTTATGACCATGGAACAGCTC	2707
Qy	1081	ACAAGTATATCATTTGGAATGAAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAT	1140
Db	2708	ACAAGTATATCATTTGGAATGAAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAT	2767
Qy	1141	CTCTTCAAGTGAATACTGCTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTT	1200



Db	1748	ATGGGCTCATTGATGTTTGTGGGCCCTTTCATCGAATGAGCTGCTCTCAGGCT	1807
QY	181	CCATCCAGCTTCGAGTAAGGANTTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	240
Db	1808	CCATCCAGCTTCGAGTAAGGANTTAACCTCCAGAACAGCCAGTGGATGAATGGCACAG	1867
QY	241	TGATCGTGGACAGCACCGTGGAAAGGACACTTTGTTTCTTATCACCCTGGACACGACG	300
Db	1868	TGATCGTGGACAGCACCGTGGAAAGGACACTTTGTTTCTTATCACCCTGGACACGACG	1927
QY	301	CTCCCCAATCCTTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA	360
Db	1928	CTCCCCAATCCTTCTCTGGGATCCAGTGGACAGAAAGGTGGCTTTGTAGTGGACA	1987
QY	361	AAAAACACAAAATGGCTTACCTCCAAATCCAGGCAATTCCTAAAGGTGGCACTTGA	420
Db	1988	AAAAACACAAAATGGCTTACCTCCAAATCCAGGCAATTCCTAAAGGTGGCACTTGA	2047
QY	421	ACAGTCTGCAAGCAAGCTCAAAACCTTGAACCTGACTGTACGCTCCGTCGTCCTAATG	480
Db	2048	ACAGTCTGCAAGCAAGCTCAAAACCTTGAACCTGACTGTACGCTCCGTCGTCCTAATG	2107
QY	481	CTACCTCGCTCCAAATACAGTGAATTCCTCAAAAAGAACAGCAACCAAGCAATTC	540
Db	2108	CTACCTCGCTCCAAATACAGTGAATTCCTCAAAAAGAACAGCAACCAAGCAATTC	2167
QY	541	GCCTCTGTGTAGTTATGCAAAATATTCGCAAGAGGCTCCCAATTCCTCAGGGCCAGT	600
Db	2168	GCCTCTGTGTAGTTATGCAAAATATTCGCAAGAGGCTCCCAATTCCTCAGGGCCAGT	2227
QY	601	TCACAGCCCTGATGTAATCAGTGAATGGAATAAAGTTCGCACTCTGGAATCTCAGTGAATG	660
Db	2228	TCACAGCCCTGATGTAATCAGTGAATGGAATAAAGTTCGCACTCTGGAATCTCAGTGAATG	2287
QY	661	GAGCAGTGTCTGATGCTACTTAAGATCAGCGTGTCTACTCAAGTATTTCAAACTTATG	720
Db	2288	GAGCAGTGTCTGATGCTACTTAAGATCAGCGTGTCTACTCAAGTATTTCAAACTTATG	2347
QY	721	ACACGAATGGTATGATACAGTGTAAAAGTGGGGCTCTGGGAGGAGTTAACCGACCCAG	780
Db	2348	ACACGAATGGTATGATACAGTGTAAAAGTGGGGCTCTGGGAGGAGTTAACCGACCCAG	2407
QY	781	GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGATTTGAGAATGATG	840
Db	2408	GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGATTTGAGAATGATG	2467
QY	841	AAATCAATGGAAATCCACCAAGACCTGAATTAATGAAGATGATTTCAACAAGCAAG	900
Db	2468	AAATCAATGGAAATCCACCAAGACCTGAATTAATGAAGATGATTTCAACAAGCAAG	2527
QY	901	TGTGTTTCAGCAGAAATCCTCGGAGGCTCAATTTGCTCTCTGATGTCCTCAAAATGCTC	960
Db	2528	TGTGTTTCAGCAGAAATCCTCGGAGGCTCAATTTGCTCTCTGATGTCCTCAAAATGCTC	2587
QY	961	CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGG	1020
Db	2588	CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGG	2647
QY	1021	GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCAATGAAACAGTCT	1080
Db	2648	GCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCAATGAAACAGTCT	2707
QY	1081	ACAAGTATATCATTCGAATAAGTACAAGTATCTTGAATCTCAGACACAAGTTCAATGAAT	1140
Db	2708	ACAAGTATATCATTCGAATAAGTACAAGTATCTTGAATCTCAGACACAAGTTCAATGAAT	2767
QY	1141	CTCTTCAAGTGAATACTACTGCTCTATCCAAAGGAAGCAACTCTCAGGAAGTCTTTT	1200
Db	2768	CTCTTCAAGTGAATACTACTGCTCTATCCAAAGGAAGCAACTCTCAGGAAGTCTTTT	2827
QY	1201	TGTTTAAACACGAAACCAATTAATTTTGAATGGCAAGATCTTTTCAATGCTATTCAGG	1260

Db	2828	TGTTAAACCAAGAAAA	CAATTACTTTTGA	AATGGCACAGATCTTT	CATTCGTAATTCAGG	2887
Qy	1261	CTGTGTAAAGTCGATCTG	AAATCAGAAATCCAA	CATTGCACGAGTATCTTT	GTTTA	1320
Db	2888	CTGTGTAAAGTCGATCTG	AAATCAGAAATATCCAA	CATTGCACGAGTATCTTT	GTTTA	2947
Qy	1321	TTCTTCCACAGACTCCG	CCAGAGACACCTAGT	CTGTGATGAAACGTCCT	CTCTGTGCTTA	1380
Db	2948	TTCTTCCACAGACTCCG	CCAGAGACACCTAGT	CTGTGATGAAACGTCCT	CTCTGTGCTTA	3007
Qy	1381	ATATTCATATCAACAG	ACACATTCCTGGCATTC	ACATTTTAAATTTATG	TGGAAGTGA	1440
Db	3008	ATATTCATATCAACAG	ACACATTCCTGGCATTC	ACATTTTAAATTTATG	TGGAAGTGA	3067
Qy	1441	TAGGAGAACTGCAGCTG	TCATATAGCTAGGCTG	AAATTTTGTTCAGATAA	TAAATAAA	1500
Db	3068	TAGGAGAACTGCAGCTG	TCATATAGCTAGGCTG	AAATTTTGTTCAGATAA	TAAATAAA	3127
Qy	1501	TCATTCATCTTTT	TTTGATTAATAAATTT	CTAAATGTAATTTAG	ACTTCCTGTAGG	1560
Db	3128	TCATTCATCTTTT	TTTGATTAATAAATTT	CTAAATGTAATTTAG	ACTTCCTGTAGG	3186
Qy	1561	GGCGGATATACATAA	TGTATATAGTACATTT	TACTATAAATGTAATTC	CTGTAGGGGGCGAT	1620
Db	3187	GGCGGATATACATAA	TGTATATAGTACATTT	TACTATAAATGTAATTC	CTGTAGGGGGCGAT	3246
Qy	1621	ATACTAAATGTAATTT	TAGACTTCCTGTAGG	GGCGGATAAAATAAAT	GCTAAACAACTGG	1680
Db	3247	ATACTAAATGTAATTT	TAGACTTCCTGTAGG	GGCGGATAAAATAAAT	GCTAAACAACTGG	3306
Qy	1681	GTA	1683			
Db	3307	GTA	3309			

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RESULT 11
US-10-393-590-12
; Sequence 12, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-590-12

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Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

1	AACAAAGTGGTCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAAGCTAG	60
	Db	
1628	AACAAAGTGGTCCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAAGAAGCTAG	1687
Qy		
61	AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACA	120
Db		
1688	AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACA	1747
Qy		
121	ATGGCCCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	180
Db		
1748	ATGGCCCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	1807
Qy		
181	CCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACGCCAGCTGGATGAATGGCACAG	240

Db 1808 CCATCCAGCTTGAGAGTAAGGGAATTAAACCTCCAGAAACAGCCAGTGGATGAATGGCACAG 1867  
Qy 241 TGATCGTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATCACTCGACACAGCAGC 300  
Db 1868 TGATCGTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATCACTCGACACAGCAGC 1927  
Qy 301 CTCGCCAAATCTTCTCTGGGATCCAGTGACAGAAAGGAGGCTTGTAGTGACA 360  
Db 1928 CTCGCCAAATCTTCTCTGGGATCCAGTGACAGAAAGGAGGCTTGTAGTGACA 1987  
Qy 361 AAAACACAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGCTTGGCACTTGGAAAT 420  
Db 1988 AAAACACAAATGGCTTACCTCCAAATCCAGGCAATGCTAAGCTTGGCACTTGGAAAT 2047  
Qy 421 ACAGTCTCAAGCAAGCTCACAACCTTGACCCCTGACTGTCAAGTCCCGTGGTCCAAATG 480  
Db 2048 ACAGTCTCAAGCAAGCTCACAACCTTGACCCCTGACTGTCAAGTCCCGTGGTCCAAATG 2107  
Qy 481 CTACCTCGCTCCAAATCAGTGACTTCCAAACGAACAGGACACAGCAAAATCCCA 540  
Db 2108 CTACCTCGCTCCAAATCAGTGACTTCCAAACGAACAGGACACAGCAAAATCCCA 2167  
Qy 541 GGCCTCTGTAGTTTATGCAATATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 600  
Db 2168 GGCCTCTGTAGTTTATGCAATATTCGCCAAGGAGCTCCCAATTTCTCAGGGCCAGTG 2227  
Qy 601 TCACAGCCCTGATTTGAATCAGTGAATGGAAGGAAACAGTTTACCTTGGAACTTCTGGAATATG 660  
Db 2228 TCACAGCCCTGATTTGAATCAGTGAATGGAAGGAAACAGTTTACCTTGGAACTTCTGGAATATG 2287  
Qy 661 GAGCAGGTGCTGATCTACTAAGGATGAGGGTGTCTACTCAAGGTATTTTCAACACTATG 720  
Db 2288 GAGCAGGTGCTGATCTACTAAGGATGAGGGTGTCTACTCAAGGTATTTTCAACACTATG 2347  
Qy 721 ACAGGAATGGTAGATACAGTGAATAGTGGGCTCTGGAGGAGTTTAAACGACGACAGC 780  
Db 2348 ACAGGAATGGTAGATACAGTGAATAGTGGGCTCTGGAGGAGTTTAAACGACGACAGC 2407  
Qy 781 GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGCTGGATGGAATGATG 840  
Db 2408 GGAGAGTGATACCCAGCAGAGTGAGCACTGTACATACCTGCTGGATGGAATGATG 2467  
Qy 841 AAATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTCAACACAGCAAG 900  
Db 2468 AAATACAAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTCAACACAGCAAG 2527  
Qy 901 TGTGTTTACGAGAACATCTCGGAGGCTCATTTTGGCTTCTGTATGCCAAATGCTC 960  
Db 2528 TGTGTTTACGAGAACATCTCGGAGGCTCATTTTGGCTTCTGTATGCCAAATGCTC 2587  
Qy 961 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGG 1020  
Db 2588 CCATACCTGATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGG 2647  
Qy 1021 GCAGTCTCAATTAATCTGACTTGGACGCTCTGGGGATGATTAAGCATGGAACAGCTC 1080  
Db 2648 GCAGTCTCAATTAATCTGACTTGGACGCTCTGGGGATGATTAAGCATGGAACAGCTC 2707  
Qy 1081 ACAAGTATATCTTCGATTAAGTACAAGTATTTTGTATCTCAGAGACAAAGTTCAATGAAT 1140  
Db 2708 ACAAGTATATCTTCGATTAAGTACAAGTATTTTGTATCTCAGAGACAAAGTTCAATGAAT 2767  
Qy 1141 CTCCTTCAAGTGAATTAATCTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 1200  
Db 2768 CTCCTTCAAGTGAATTAATCTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 2827  
Qy 1201 TGTTTAAACCAAGAAACATTAATTTGAAATGGCAGACAGATCTTTTCAATGCTATTCAGG 1260  
Db 2828 TGTTTAAACCAAGAAACATTAATTTGAAATGGCAGACAGATCTTTTCAATGCTATTCAGG 2887  
Qy 1261 CTGTTGATGAAGTCCGATCTGAATCAGAAATATCCAAATTCACAGAGTATCTTTGTTTA 1320  
Db 2888 CTGTTGATGAAGTCCGATCTGAATCAGAAATATCCAAATTCACAGAGTATCTTTGTTTA 2947

Qy 1321 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGTGTAAGACGTCTCTCTCTTGTCTTA 1380  
Db 2948 TTCTCCACAGACTCCGCCAGAGACACCTAGTCTCTGTGTAAGACGTCTCTCTCTTGTCTTA 3007  
Qy 1381 ATATTCAATCAACAGACACCACTTCTGGCAATTCACATTTTAAAAAATTTATGTGGAAGTGA 1440  
Db 3008 ATATTCAATCAACAGACACCACTTCTGGCAATTCACATTTTAAAAAATTTATGTGGAAGTGA 3067  
Qy 1441 TAGGAGAACTGCAGCTGTCAATAGCTTAGGCTGAAATTTTGTTCAGATAAAATAAAATAAA 1500  
Db 3068 TAGGAGAACTGCAGCTGTCAATAGCTTAGGCTGAAATTTTGTTCAGATAAAATAAAATAAA 3127  
Qy 1501 TCATTTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTTACACTTCTCTGTAGG 1560  
Db 3128 TCATTTCATCTCTTTTGTGATTATAAAATTTTCTAAATGTATTTTACACTTCTCTGTAGG 3186  
Qy 1561 GGGCGATATACTAAATGTATATAGTATTTATCTAAATGTATTTCTCTGTAGGCGCGAT 1620  
Db 3187 GGGCGATATACTAAATGTATATAGTATTTATCTAAATGTATTTCTCTGTAGGCGCGAT 3246  
Qy 1621 ATACTAAATGTATTTTAGACTTCTCTGTAGGCGCGATATAAAATAAAATGCTAAACACTGG 1680  
Db 3247 ATACTAAATGTATTTTAGACTTCTCTGTAGGCGCGATATAAAATAAAATGCTAAACACTGG 3306  
Qy 1681 GTA 1683  
Db 3307 GTA 3309

RESULT 12  
US-10-393-590-46  
; Sequence 46, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-46  
Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 1; Gaps 1;  
Qy 1 AACAAAGTGGTGGCATCATCCACAGCTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGGTGGCATCATCCACAGCTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAG 1687  
Qy 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 120  
Db 1688 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGACA 1747  
Qy 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAGCCCT 180  
Db 1748 ATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAGCCCT 1807  
Qy 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCAGCAGTGAATGAATGCACAG 240  
Db 1808 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCAGCAGTGAATGAATGCACAG 1867  
Qy 241 TGATCGTGGACAGCACCGCTGGGAAAGGACACTTTTGTATACCTTGGGACAAACGACG 300  
Db 1868 TGATCGTGGACAGCACCGCTGGGAAAGGACACTTTTGTATACCTTGGGACAAACGACG 1927

QY 301 CTCGCCAAATCTCTCTGGGATCCAGTGGAGAGCAAGTGGCTTTGTAGTGACA 360  
Db 1928 CTCGCCAAATCTCTCTGGGATCCAGTGGAGAGCAAGTGGCTTTGTAGTGACA 1987  
QY 361 AAAACACCAAAATGGCTACCTCCAAATCCCAAGGATGCTGAAGTTGGCACTTGAAT 420  
Db 1988 AAAACACCAAAATGGCTACCTCCAAATCCCAAGGATGCTGAAGTTGGCACTTGAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTACGCTCCCGTGGTCCAATG 480  
Db 2048 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTACGCTCCCGTGGTCCAATG 2107  
QY 481 CTACCTCGCTCCAAATTCAGTGACTTCCAAAACGAACAGACACCAAGCAAAATCCCCA 540  
Db 2108 CTACCTCGCTCCAAATTCAGTGACTTCCAAAACGAACAGACACCAAGCAAAATCCCCA 2167  
QY 541 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGAGGCTCCCAATTCAGGGCCAGTG 600  
Db 2168 GCCCTCTGGTAGTTATGCAAAATATTCGCAAGAGGCTCCCAATTCAGGGCCAGTG 2227  
QY 601 TCACAGCCCTGATTAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGATATG 660  
Db 2228 TCACAGCCCTGATTAATCAGTGAATGGAATAACAGTTACCTTGGAACTACTGATATG 2287  
QY 661 GAGCAGTGTCTGATGCTTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATG 720  
Db 2288 GAGCAGTGTCTGATGCTTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATG 2347  
QY 721 ACACGAATGTAGATACAGTGAATGAGTGGGCTCTGGAGGATTAACGACCCAGAC 780  
Db 2348 ACACGAATGTAGATACAGTGAATGAGTGGGCTCTGGAGGATTAACGACCCAGAC 2407  
QY 781 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGGAATGAGATGATG 2467  
Db 2408 GGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGCTGGAATGAGATGATG 840  
QY 841 AAATCAATGGAATCCCAAGACCTGAAATTAATAGGATGATTTCAACACCAAGCAAG 900  
Db 2468 AAATCAATGGAATCCCAAGACCTGAAATTAATAGGATGATTTCAACACCAAGCAAG 2527  
QY 901 TGTGTTTCAGCAGAAATCCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTC 960  
Db 2528 TGTGTTTCAGCAGAAATCCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTC 2587  
QY 961 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGG 1020  
Db 2588 CCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCAGGGG 2647  
QY 1021 GCAGTCTCAATTAATCTGACTTGGACAGCTCCTGGGATGATTAACCAATGGAACAGCTC 1080  
Db 2648 GCAGTCTCAATTAATCTGACTTGGACAGCTCCTGGGATGATTAACCAATGGAACAGCTC 2707  
QY 1081 ACAAGTATATCATTCGAATAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAAT 1140  
Db 2708 ACAAGTATATCATTCGAATAGTACAGTATTTCTGATCTCAGACAAAGTTCAATGAAT 2767  
QY 1141 CTCTTCAAGTGAATTAATCTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAACTTTT 1200  
Db 2768 CTCTTCAAGTGAATTAATCTGCTCTCATCCCAAGGAAGCCAACTCTCAGGAACTTTT 2827  
QY 1201 TGTTTAAACCGAATAAATTAATTTGAAATGCGACAGATCTTTTCATTTGCTATTCAGG 1260  
Db 2828 TGTTTAAACCGAATAAATTAATTTGAAATGCGACAGATCTTTTCATTTGCTATTCAGG 2887  
QY 1261 CTGTTGATAAGGTGATCTGAAATCAGAAATATCAACATTTGCGAGTATCTTTGTTTA 1320  
Db 2888 CTGTTGATAAGGTGATCTGAAATCAGAAATATCAACATTTGCGAGTATCTTTGTTTA 2947  
QY 1321 TTCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACCTCTGCTCTTGTCTTA 1380  
Db 2948 TTCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACCTCTGCTCTTGTCTTA 3007

QY 1381 ATATTCAATATCAACAGCACCAATTCCTGGCAATTCATTTTAAAAATTTATGTGAAATGCA 1440  
Db 3008 ATATTCAATATCAACAGCACCAATTCCTGGCAATTCATTTTAAAAATTTATGTGAAATGCA 3067  
QY 1441 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAATTTTCTCAGATAAAATAAA 1500  
Db 3068 TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAATTTTCTCAGATAAAATAAA 3127  
QY 1501 TCATTATCTCTTTTGTGATTTTAAATAATTTCTAAATATGTTTATAGACTTCTCTAGG 1560  
Db 3128 TCATTATCTCTTTTGTGATTTTAAATAATTTCTAAATATGTTTATAGACTTCTCTAGG 3186  
QY 1561 GGGCGATATATACTAATGTATATAGTATATACTAAATGTTTCTGTAGGGGGCGAT 1620  
Db 3187 GGGCGATATATACTAATGTATATAGTATATACTAAATGTTTCTGTAGGGGGCGAT 3246  
QY 1621 ATACTAAATGTATTTTAGACTTCTGTAGGGGGCGATAAAATAAAATGCTAAACACTGG 1680  
Db 3247 ATACTAAATGTATTTTAGACTTCTGTAGGGGGCGATAAAATAAAATGCTAAACACTGG 3306  
QY 1681 GTA 1683  
Db 3307 GTA 3309

## RESULT 13

US-10-393-590-47  
; Sequence 47, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-47

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGGTGGCCATCATCCACAGTCGCTTTGGGGCCCTCGCAGCTCAAGACTAG 60  
Db 1628 AACAAAGTGGTGGCCATCATCCACAGTCGCTTTGGGGCCCTCGCAGCTCAAGACTAG 1687  
QY 61 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGA 120  
Db 1688 AGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGA 1747  
QY 121 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 180  
Db 1748 ATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGCTCTCAGCGCT 1807  
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGCTGATGAATGCGACAG 240  
Db 1808 CCATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGCTGATGAATGCGACAG 1867  
QY 241 TGATCGTGACAGCAGCCGCTGGGAAGGACACTTTGTTTCTTATCACCTGGAACCGCAGC 300  
Db 1868 TGATCGTGACAGCAGCCGCTGGGAAGGACACTTTGTTTCTTATCACCTGGAACCGCAGC 1927  
QY 301 CTCGCCAAATCTCTCTGGGATCCAGTGGACAGAAAGTGGCTTTGTAGTGACA 360  
Db 1928 CTCGCCAAATCTCTCTGGGATCCAGTGGACAGAAAGTGGCTTTGTAGTGACA 1987

QY	361	AAAACACCAAAATGGCCTTACCTCCAAATCCGAGGCATTGCTAAAGGTGGCACTTGGAAAT	420
DB	1988	AAAACACCAAAATGGCCTTACCTCCAAATCCGAGGCATTGCTAAAGGTGGCACTTGGAAAT	2047
QY	421	ACAGTCTGCAAGCAAGCTCACAAAACCTTGACCCCTGACTGTGTCACTGCTCCCGTGGTCCAAATG	480
DB	2048	ACAGTCTGCAAGCAAGCTCACAAAACCTTGACCCCTGACTGTGTCACTGCTCCCGTGGTCCAAATG	2107
QY	481	CTACCCCTGCCTCCAAATTAAGTGAATTCGCAAAACGAAACGAAACACCAACCAATTCGCCCA	540
DB	2108	CTACCCCTGCCTCCAAATTAAGTGAATTCGCAAAACGAAACACCAACCAATTCGCCCA	2167
QY	541	GCCCTCTGGTAGTTTATGCAAAATATTCGCAAAAGGAGCCTCCCAAATCTCAGGSCCAGTG	600
DB	2168	GCCCTCTGGTAGTTTATGCAAAATATTCGCAAAAGGAGCCTCCCAAATCTCAGGSCCAGTG	2227
QY	601	TCACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTCTGGTAATG	660
DB	2228	TCACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTTACCTTGGAACTACTCTGGTAATG	2287
QY	661	GAGCAGGTCTGATGTCTAAGGATGACGGTGTCTACTCAAGGTATTTTCACAACTTTATG	720
DB	2288	GAGCAGGTCTGATGTCTAAGGATGACGGTGTCTACTCAAGGTATTTTCACAACTTTATG	2347
QY	721	ACAGGAATCGTAGATACAGTGTAAAAGTGGGGCTCTGGGAGGAGTTAAACGACCCAGAC	780
DB	2348	ACAGGAATCGTAGATACAGTGTAAAAGTGGGGCTCTGGGAGGAGTTAAACGACCCAGAC	2407
QY	781	GGAGAGTGATACCCGACGAGATGGAGCACTGTACATACCTGGCTGATTTGAGAAATGATG	840
DB	2408	GGAGAGTGATACCCGACGAGATGGAGCACTGTACATACCTGGCTGATTTGAGAAATGATG	2467
QY	841	AAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGGATGATGTTCAACACAAAGCAAG	900
DB	2468	AAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGGATGATGTTCAACACAAAGCAAG	2527
QY	901	TGTGTTTTCACGAGAAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC	960
DB	2528	TGTGTTTTCACGAGAAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTC	2587
QY	961	CCATACCTGATCTCTTCCCACTGGCCAAATTCACCGACCTGAAGCGCGAAATTCACGGGG	1020
DB	2588	CCATACCTGATCTCTTCCCACTGGCCAAATTCACCGACCTGAAGCGCGAAATTCACGGGG	2647
QY	1021	GCAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGGATGATTATGACCATGGAAACAGCTC	1080
DB	2648	GCAGTCTCATTAATCTGACTTTGGACAGCTCTCTGGGGATGATTATGACCATGGAAACAGCTC	2707
QY	1081	ACAAAGTATATCATTTGCAATTAAGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAAT	1140
DB	2708	ACAAAGTATATCATTTGCAATTAAGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAAT	2767
QY	1141	CTCTTCAAGTGAATACACTGCTCTCATCCCAAAGGAAGCCAACTCTGAGGAGTCTTTT	1200
DB	2768	CTCTTCAAGTGAATACACTGCTCTCATCCCAAAGGAAGCCAACTCTGAGGAGTCTTTT	2827
QY	1201	TGTTTAAACACGAAAACATTAATTTTGGAAATGGCACAGATCTTTTCAATTTGATTTCAAGS	1260
DB	2828	TGTTTAAACACGAAAACATTAATTTTGGAAATGGCACAGATCTTTTCAATTTGATTTCAAGS	2887
QY	1261	CTGTGTGATAAGTTCGATCTGAAATCAGAAATATCCAAATTTGCAAGTATCTTTGTTTA	1320
DB	2888	CTGTGTGATAAGTTCGATCTGAAATCAGAAATATCCAAATTTGCAAGTATCTTTGTTTA	2947
QY	1321	TTCTCTCCACAGACTCGGCAGAGACACCTAGTGCCTGATGAAACGCTCTGCTCTCTGTGCTTA	1380
DB	2948	TTCTCTCCACAGACTCGGCAGAGACACCTAGTGCCTGATGAAACGCTCTGCTCTCTGTGCTTA	3007
QY	1381	ATATTTTCAATCAACAGCACCATTTCTTGGCAATTCACATTTTAAAAATTTATGTGAAAGTGA	1440
DB	3008	ATATTTTCAATCAACAGCACCATTTCTTGGCAATTCACATTTTAAAAATTTATGTGAAAGTGA	3067
QY	1441	TAGGAGAACTGCAGCTGTCAATAGCCTAGGGCTGAATTTTGTGTCAGTAATAATAATAATAA	1500

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Db      3068  TAGGAGAACTGCAGCTGTCAATAGCTAGGCTGAAATTTTGTGAGATAAATAAATAAA 3127
Qy      1501  TCATTCATCCCTTTTTCATATATAAAATTTCTAAAAATGTATTTTAGACTTCCTGTAGG 1560
Db      3128  TCATTCATCC-TTTTTTGTATATAAAATTTCTAAAAATGTATTTTAGACTTCCTGTAGG 3186
Qy      1561  GGCGGATATACATAAATGTATATAGTACATTTATATACATAAATGTATTCCTGTAGGGGGCGAT 1620
Db      3187  GGCGGATATACATAAATGTATATAGTACATTTATATACATAAATGTATTCCTGTAGGGGGCGAT 3246
Qy      1621  ATACTAAATGTATTTTAGACTTCCTGTAGGGGGCGATAAAATAAATCTATAAACAACTGG 1680
Db      3247  ATACTAAATGTATTTTAGACTTCCTGTAGGGGGCGATAAAATAAATGCTATAAACAACTGG 3306
Qy      1681  GTA 1683
Db      3307  GTA 3309

RESULT 14
US-10-393-567-11
; Sequence 11, Application US/10393567
; Publication No. US20030194733A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL
; FILE REFERENCE: CDS 269 US NP
; CURRENT APPLICATION NUMBER: US/10/393,567
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,667
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 3311
; TYPE: DNA
; ORGANISM: human
US-10-393-567-11

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Query Match	99.3%;	Score 1671;	DB 15;	Length 3311;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 1692;	Conservative 0;	Mismatches 0;	Indels 1;	Gaps 1;
QY	1	AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTTGCGAGCTCAAGAAGCTAG	60	
Db	1628	AACAAAGTGGTGCCATCATCCACACAGTCGCTTTGGGGCCCTTGCGAGCTCAAGAAGCTAG	1687	
QY	61	AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACA	120	
Db	1688	AGGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAACA	1747	
QY	121	ATGGCCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	180	
Db	1748	ATGGCCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCT	1807	
QY	181	CCATCCAGCTTGAGAGTAAAGGATTAACCTTCAGAACAGCCAGTGGATCAANTGGCACAG	240	
Db	1808	CCATCCAGCTTGAGAGTAAAGGATTAACCTTCAGAACAGCCAGTGGATGAATGGCACAG	1867	
QY	241	TGATCTGTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATCACCTGACAAACGGCAGC	300	
Db	1868	TGATCTGTGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATCACCTGACAAACGGCAGC	1927	
QY	301	CTCCCCAAATCTCTCTGGGATCCAGTGGACAGACGAGTGGCTTTGTAGTGGACA	360	
Db	1928	CTCCCCAAATCTCTCTGGGATCCAGTGGACAGACGAGTGGCTTTGTAGTGGACA	1987	
QY	361	AAABACCAAAATGGCTACTCTCCAAATCCCAGGCATTGCTTAAGTGTGGCATCTTGGAAAT	420	
Db	1988	AAABACCAAAATGGCTACTCTCCAAATCCCAGGCATTGCTTAAGTGTGGCATCTTGGAAAT	2047	
QY	421	ACAGTCTGCAAGCAAGCTCAAAACCTTGACCCCTGACTGTACAGCTCCGCTCGTCCAATG	480	

Db 2048 ACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTGTCAGTCCCGTGCTCAATG 2107  
QY |||||  
Db 481 CTACCTCTGCTCCCAATTACAGTGACTTCCAAACGAAACAGACACACAGCAAAATCCCA 540  
QY |||||  
Db 2108 CTACCTCTGCTCCCAATTACAGTGACTTCCAAACGAAACAGACACACAGCAAAATCCCA 2167  
QY |||||  
Db 541 GCGCTCTGCTAGTTTATCAAAATATTCGCCAAGAGAGCTCCCAATTTCTCAGGGCCAGTG 600  
QY |||||  
Db 2168 GCGCTCTGCTAGTTTATCAAAATATTCGCCAAGAGAGCTCCCAATTTCTCAGGGCCAGTG 2227  
QY |||||  
Db 601 TCACAGCCCTGATTGAATCAGTGAATGAAACAGTTTACCTTGGAACCTACTGGATAATG 660  
QY |||||  
Db 2228 TCACAGCCCTGATTGAATCAGTGAATGAAACAGTTTACCTTGGAACCTACTGGATAATG 2287  
QY |||||  
Db 661 GAGCAGGTGCTGATGCTACTAAGAGTACGCTGTCTACTCAAGTATTTCACACTTATG 720  
QY |||||  
Db 2288 GAGCAGGTGCTGATGCTACTAAGAGTACGCTGTCTACTCAAGTATTTCACACTTATG 2347  
QY |||||  
Db 721 ACACGAATGTPAGATACAGTGTAAAGTTCGGGCTCTGGAGAGATTAAACGACCCAGAC 780  
QY |||||  
Db 2348 ACACGAATGTPAGATACAGTGTAAAGTTCGGGCTCTGGAGAGATTAAACGACCCAGAC 2407  
QY |||||  
Db 781 GGAGGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATG 840  
QY |||||  
Db 2408 GGAGGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATTGAGAAATGATG 2467  
QY |||||  
Db 841 AAATACAAATGGAATCCACCAAGACCTCAAAATTAATAGAGTATGTTCAACACAGCAAG 900  
QY |||||  
Db 2468 AAATACAAATGGAATCCACCAAGACCTCAAAATTAATAGAGTATGTTCAACACAGCAAG 2527  
QY |||||  
Db 901 TGTGTTTCACAGAAATCTCTGGGAGGCTCAATTTGGGCTTCTGATGTCCTCAAAATGCTC 960  
QY |||||  
Db 2528 TGTGTTTCACAGAAATCTCTGGGAGGCTCAATTTGGGCTTCTGATGTCCTCAAAATGCTC 2587  
QY |||||  
Db 961 CCATACCTGATCTCTTCCCACTGGCCAAATCAACGACCTGAAGGCGGAAATTCAGGGG 1020  
QY |||||  
Db 2588 CCATACCTGATCTCTTCCCACTGGCCAAATCAACGACCTGAAGGCGGAAATTCAGGGG 2647  
QY |||||  
Db 1021 GCAGTCTCATTAATCTGACTTGACAGCTCTCGGGATGATGATGATGATGATGATGATGAT 1080  
QY |||||  
Db 2648 GCAGTCTCATTAATCTGACTTGACAGCTCTCGGGATGATGATGATGATGATGATGATGAT 2707  
QY |||||  
Db 1081 ACAAGTATATCATTCGAATTAAGTACAAATTTCTGATCTCAGACAAAGTTCAATGAAT 1140  
QY |||||  
Db 2708 ACAAGTATATCATTCGAATTAAGTACAAATTTCTGATCTCAGACAAAGTTCAATGAAT 2767  
QY |||||  
Db 1141 CTCTTCAAGTGAATCTACTGCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT 1200  
QY |||||  
Db 2768 CTCTTCAAGTGAATCTACTGCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTT 2827  
QY |||||  
Db 1201 TGTTTAAACGAGAAACATTTACTTTTGAATAAGGACAGATCTTTTCATGCTATTCAGG 1260  
QY |||||  
Db 2828 TGTTTAAACGAGAAACATTTACTTTTGAATAAGGACAGATCTTTTCATGCTATTCAGG 2887  
QY |||||  
Db 1261 CTGTTGATAAGTCTGATGATGAAATCAGAAATTCACAGATCTTTTCATGCTATTCAGG 1320  
QY |||||  
Db 2888 CTGTTGATAAGTCTGATGATGAAATCAGAAATTCACAGATCTTTTCATGCTATTCAGG 2947  
QY |||||  
Db 1321 TTCCTCCACAGACTCCGCGACAGACACCTAGTCTGATGAAACGCTCTCTCTCTCTCTCT 1380  
QY |||||  
Db 2948 TTCCTCCACAGACTCCGCGACAGACACCTAGTCTGATGAAACGCTCTCTCTCTCTCTCT 3007  
QY |||||  
Db 1381 ATATTTCATATCAACAGCACCATTCTCTGCGATTCACATTTTAAATTTATGTTGAAGTGA 1440  
QY |||||  
Db 3008 ATATTTCATATCAACAGCACCATTCTCTGCGATTCACATTTTAAATTTATGTTGAAGTGA 3067  
QY |||||  
Db 1441 TAGGAGAACTCAGCTGTCATAGCTAGGGCTGAATTTTGTTCAGATATTAATAATAA 1500  
QY |||||  
Db 3068 TAGGAGAACTCAGCTGTCATAGCTAGGGCTGAATTTTGTTCAGATATTAATAATAA 3127  
QY |||||  
Db 1501 TCATTTCATCTTTTGTGATTAATAAATTTTCTAAATATGATTTTAGACTTCTCTGTAGG 1560  
QY |||||

Db 3128 TCATTTCATCC-TTTTTCATTAATAAATTTTCTAAATGTATTTTAGACTTCTCTGTAGG 3186  
QY |||||  
Db 1561 GGGCGATATCTAAATGTATATAGTACATTTTACTTAATGTATTTCTGTAGGGGGCGAT 1620  
QY |||||  
Db 3187 GGGCGATATCTAAATGTATATAGTACATTTTACTTAATGTATTTCTGTAGGGGGCGAT 3246  
QY |||||  
Db 1621 ATACTAAATGTATTTTAGACTTCTCTGTAGGGGGCGATAAATATAAATGCTTAACAACTGG 1680  
QY |||||  
Db 3247 ATACTAAATGTATTTTAGACTTCTCTGTAGGGGGCGATAAATATAAATGCTTAACAACTGG 3306  
QY |||||  
Db 1681 GTA 1683  
Db 3307 GTA 3309

## RESULT 15

US-10-393-567-12  
; Sequence 12, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; PRIOR FILING DATE: 2003-03-21  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-12

Query Match 99.3%; Score 1671; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1682; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 AACAAAGTGTGCTCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 60  
Db 1628 AACAAAGTGTGCTCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGAACTAG 1687  
QY 61 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGCA 120  
Db 1688 AGGAGCTGTCCAAAATGACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGCA 1747  
QY 121 ATGGCTCATNTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCT 180  
Db 1748 ATGGCTCATNTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGAGCTGTCTCTCAGCGCT 1807  
QY 181 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGAC 240  
Db 1808 CCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGAC 1867  
QY 241 TGATCGTGGACAGCACCGCTGGGAAGGACACTTTTCTTATCACCCTGGACCAACGCGAGC 300  
Db 1868 TGATCGTGGACAGCACCGCTGGGAAGGACACTTTTCTTATCACCCTGGACCAACGCGAGC 1927  
QY 301 CTCCTCCAAATCTTCTCTGGAATCCAGTGGACAGAACAGGTTGGCTTTGTAGTGGACA 360  
Db 1928 CTCCTCCAAATCTTCTCTGGAATCCAGTGGACAGAACAGGTTGGCTTTGTAGTGGACA 1987  
QY 361 AAAACACCAAAATCGCTTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 420  
Db 1988 AAAACACCAAAATCGCTTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAAT 2047  
QY 421 ACAGTCTGCAAGCAAGCTCAAAAACCTTTGACCTTGTGCTGTACGCTCCGCTCGCTCAATG 480  
Db 2048 ACAGTCTGCAAGCAAGCTCAAAAACCTTTGACCTTGTGCTGTACGCTCCGCTCGCTCAATG 2107  
QY 481 CTACCTGCTCCAAATTTACAGTGAATTTCCAAAACGAAACAGGACACCAAGAAATTTCCCA 540  
Db |||||

Db	2108	CTACCTCGCTCCAAATACAGTGAATCCAAACGAAACAGACACACGAAATCCCA 2167
Qy	541	GCCCTCTGTAGTTTATGCAAAATATTCGCAAGGAGCCTCCCAATTTCTCAGGGCAGTG 600
Db	2168	GCCCTCTGTAGTTTATGCAAAATATTCGCAAGGAGCCTCCCAATTTCTCAGGGCAGTG 2227
Qy	601	TCACAGCCCTGATGAATCAGTGAATGGAACACAGTTACCTTGGAACTACTGGATAATG 560
Db	2228	TCACAGCCCTGATGAATCAGTGAATGGAACACAGTTACCTTGGAACTACTGGATAATG 2287
Qy	661	GAGCAGCTCTGATGCTACTAAGGTGAGGTGCTCTACTCAAGGTATTTCAAACTTATG 720
Db	2288	GAGCAGCTCTGATGCTACTAAGGTGAGGTGCTCTACTCAAGGTATTTCAAACTTATG 2347
Qy	721	ACACGAATGCTAGATACAGTGTAAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCCAGAC 780
Db	2348	ACACGAATGCTAGATACAGTGTAAAAGTGGGGCTCTGGGAGGAGTTAAACGAGCCAGAC 2407
Qy	781	GGAGAGTGATACCCACGAGAGTGGAGCACTGTACATACCTGGCTGGANTGGAATGATG 840
Db	2408	GGAGAGTGATACCCACGAGAGTGGAGCACTGTACATACCTGGCTGGANTGGAATGATG 2467
Qy	841	AAATACAAATGGAATCCACCAAGACCTGAATTAATTAAGGATGATGTTCAACACAAAGCAAG 900
Db	2468	AAATACAAATGGAATCCACCAAGACCTGAATTAATTAAGGATGATGTTCAACACAAAGCAAG 2527
Qy	901	TGTGTTTCAGCAGAAATCCTCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTC 960
Db	2528	TGTGTTTCAGCAGAAATCCTCGGGAGGCTCATTTGTGGCTTCTGATGTCCCAAAATGCTC 2587
Qy	961	CCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGGCGGAATTCACGGGG 1020
Db	2588	CCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGGCGGAATTCACGGGG 2647
Qy	1021	GCAGTCTCATTAATCTGACCTGGACAGCTCTCTGGGGATGATTAATGACCATGGAACAGCTC 1080
Db	2648	GCAGTCTCATTAATCTGACCTGGACAGCTCTCTGGGGATGATTAATGACCATGGAACAGCTC 2707
Qy	1081	ACAAGTATATCANTCGAATGAATCAAGTATCTTGATCTCAGAGACAAAGTTCAATGAAT 1140
Db	2708	ACAAGTATATCANTCGAATGAATCAAGTATCTTGATCTCAGAGACAAAGTTCAATGAAT 2767
Qy	1141	CTCTTCAAGTGAATFACTGCTCTCTATCCCAAGGAGCAACTCTCAGGAGCTCTTT 1200
Db	2768	CTCTTCAAGTGAATFACTGCTCTCTATCCCAAGGAGCAACTCTCAGGAGCTCTTT 2827
Qy	1201	TGTTTAAACCAAGAAACATTTCTGAAATGGCACAGATCTTTTCATTGCTATTTCAGG 1260
Db	2828	TGTTTAAACCAAGAAACATTTCTGAAATGGCACAGATCTTTTCATTGCTATTTCAGG 2887
Qy	1261	CTGTTGATFAGGTGATCTGAAATCAGAAATATCCAACTTGCAGAGTATCTTTGTTTA 1320
Db	2888	CTGTTGATFAGGTGATCTGAAATCAGAAATATCCAACTTGCAGAGTATCTTTGTTTA 2947
Qy	1321	TTCTCTCAGACACTCGGCAGAGACACCTAGTCTGATGAAACGCTCTCTCTCTGCTTA 1380
Db	2948	TTCTCTCAGACACTCGGCAGAGACACCTAGTCTGATGAAACGCTCTCTCTCTGCTTA 3007
Qy	1381	ATATTCTATCAACAGACACCTCTCTGGCATTTCAATTTTAAATTAATGGAAGTGA 1440
Db	3008	ATATTCTATCAACAGACACCTCTCTGGCATTTCAATTTTAAATTAATGGAAGTGA 3067
Qy	1441	TAGGAGAACTGCAGCTGTCAATFAGCTAGGCTGAATTTTGTCTAGATAAATAAATAA 1500
Db	3068	TAGGAGAACTGCAGCTGTCAATFAGCTAGGCTGAATTTTGTCTAGATAAATAAATAA 3127
Qy	1501	TCATTCACTCTTTTGTGATTAATAATTTCTAAATGATTTTGTAGACTTCTGTAGG 1560
Db	3128	TCATTCACTCTTTTGTGATTAATAATTTCTAAATGATTTTGTAGACTTCTGTAGG 3186
Qy	1561	GGGGGATATCTAAATGATATAGTACATTTTACTTAAATGATTTCTGTAGGGCGAT 1620
Db	3187	GGGGGATATCTAAATGATATAGTACATTTTACTTAAATGATTTCTGTAGGGCGAT 3246

Qy

1621

ATACTAAATGTATTTTAGACTTCTCTGTAGGGCGGATATAAATAAATGCTAAACAACTGG 1680

Db

3247

ATACTAAATGTATTTTAGACTTCTCTGTAGGGCGGATATAAATAAATGCTAAACAACTGG 3306

Qy

1681

GTA 1683

Db

3307

GTA 3309

Search completed: October 19, 2004, 16:48:28

Job time : 533.22 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 09:47:01 ; Search time 165.922 Seconds  
(without alignments)  
12778.822 Million cell updates/sec

Title: US-09-049-696-20

Perfect score: 2983

Sequence: 1 GAATCAGGAGATGTAC.....AAATGCTAAACAACTGGGTA 2983

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: \*  
1: /cgn2\_6/ptodata/1/ina/5A COMB.seq: \*  
2: /cgn2\_6/ptodata/1/ina/5B COMB.seq: \*  
3: /cgn2\_6/ptodata/1/ina/6A COMB.seq: \*  
4: /cgn2\_6/ptodata/1/ina/6B COMB.seq: \*  
5: /cgn2\_6/ptodata/1/ina/PTUS COMB.seq: \*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2971.8	99.6	3007	3	US-09-193-562D-27
2	2971.8	99.6	3007	4	US-10-055-412B-27
3	2743	92.0	2745	4	US-09-623-624-5
4	2743	92.0	2745	4	US-10-270-595-5
5	1764	59.1	2931	4	US-09-623-624-1
6	1764	59.1	2931	4	US-10-270-595-1
7	1512	50.7	1512	4	US-09-016-434-850
8	1308.6	43.9	3043	3	US-09-049-698-16
9	1308.6	43.9	3181	3	US-09-049-698-18
10	900.2	30.2	3317	3	US-09-193-562D-1
11	900.2	30.2	3317	4	US-10-055-412B-1
12	840.6	28.2	3022	3	US-09-193-562D-33
13	840.6	28.2	3022	4	US-10-055-412B-33
14	832.6	27.9	3418	3	US-09-193-562D-29
15	832.6	27.9	3418	4	US-10-055-412B-29
16	790.8	26.5	878	1	US-08-469-667-8
17	790.8	26.5	878	3	US-09-224-110-8
18	790.8	26.5	878	5	PCT-US95-07289-8
19	554.6	18.6	2784	4	US-09-643-597-168
20	554.6	18.6	2784	4	US-09-480-884A-168
21	554.6	18.6	2784	4	US-09-542-615A-168
22	554.6	18.6	2784	4	US-09-606-421B-168
23	554.6	18.6	2784	4	US-09-466-396A-168
24	554.6	18.6	2784	4	US-09-476-496A-168
25	554.6	18.6	2784	4	US-09-630-940B-168
26	552.2	18.5	2773	4	US-09-643-597-358
27	552.2	18.5	2773	4	US-09-630-940B-358

28	552.2	18.5	2970	3	US-09-193-562D-31	Sequence 31, Appl
29	552.2	18.5	2970	4	US-10-055-412B-31	Sequence 31, Appl
30	552.2	18.5	3951	4	US-09-643-597-160	Sequence 160, App
31	552.2	18.5	3951	4	US-09-480-884A-160	Sequence 160, App
32	552.2	18.5	3951	4	US-09-542-615A-160	Sequence 160, App
33	552.2	18.5	3951	4	US-09-606-421B-160	Sequence 160, App
34	552.2	18.5	3951	4	US-09-466-396A-160	Sequence 160, App
35	552.2	18.5	3951	4	US-09-221-107-160	Sequence 160, App
36	552.2	18.5	3951	4	US-09-476-496A-160	Sequence 160, App
37	552.2	18.5	3951	4	US-09-630-940B-160	Sequence 160, App
38	552.2	18.5	8031	4	US-09-643-597-254	Sequence 254, App
39	552.2	18.5	8031	4	US-09-480-884A-254	Sequence 254, App
40	552.2	18.5	8031	4	US-09-542-615A-254	Sequence 254, App
41	552.2	18.5	8031	4	US-09-606-421B-254	Sequence 254, App
42	552.2	18.5	8031	4	US-09-476-496A-254	Sequence 254, App
43	552.2	18.5	8031	4	US-09-630-940B-254	Sequence 254, App
44	550.6	18.5	3190	4	US-09-623-624-3	Sequence 3, Appli
45	550.6	18.5	3190	4	US-10-270-595-3	Sequence 3, Appli

## ALIGNMENTS

### RESULT 1

US-09-193-562D-27  
; Sequence 27, Application US/09193562D  
; Patent No. 6309857

; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 27

; LENGTH: 3007

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-193-562D-27

Query Match 99.6%; Score 2971.8; DB 3; Length 3007;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 2976; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy	1	GAATCAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTTCATCTGATT	60
Db	23	GGAATCAGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTTCATCTGATT	82
Qy	61	CTTCACCTTCTAGAGGGCCCTGAGTAATTCAGTCATTGAGCTGAACAACATGGCTAT	120
Db	83	CTTCACCTTCTAGAGGGCCCTGAGTAATTCAGTCATTGAGCTGAACAACATGGCTAT	142
Qy	121	GAAGGCATTTGCTTGAATCGACCCCAATGTGCCAGAGATGAACACATCAATCAACA	180
Db	143	GAAGGCATTTGCTTGAATCGACCCCAATGTGCCAGAGATGAACACATCAATCAACA	202
Qy	181	ATAAGACATGTGACCCCGGATCTCTATCTGTTTGAAGCTACAGGAAGCGATT	240
Db	203	ATAAGACATGTGACCCCGGATCTCTATCTGTTTGAAGCTACAGGAAGCGATT	262
Qy	241	TATTTCAAAATGTTGCCATTTTGAATTCCTGAACATGGAAGCAAAAGGCTGATGTG	300
Db	263	TATTTCAAAATGTTGCCATTTTGAATTCCTGAACATGGAAGCAAAAGGCTGATGTG	322
Qy	301	AGACCAAACTTGAGACCTACAAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	360
Db	323	AGACCAAACTTGAGACCTACAAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA	382
Qy	361	GCTAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGCTGAAGATC	420



Db	383	GGTAATGATGAACCCCTACACTGACAGATGGGCAACTGTGTGAGAGAGGGTGAAGGATC	442	QY	1501	GGATTAAACCCCTCCAGAAACAGCCAGTGGATGAATGGCAACAGTGATGGTGGACAGCACCGTG	1560
QY	421	CACCTCACTCTGCTGATTTTCATTGCGAGGAAAAAGTTAGCTGTAATATGGACCAACAAGGTAGG	480	Db	1523	GGATTAAACCCCTCCAGAAACAGCCAGTGGATGAATGGCAACAGTGATGGTGGACAGCACCGTG	1582
Db	443	CACCTCACTCTGCTGATTTTCATTGCGAGGAAAAAGTTAGCTGTAATATGGACCAACAAGGTAGG	502	QY	1561	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAAGGAGCCCTCCCAAAATCCTTCTCTGG	1620
QY	481	GCATTTGTCATAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTCAATAATGAT	540	Db	1583	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAAGGAGCCCTCCCAAAATCCTTCTCTGG	1642
Db	503	GCATTTGTCATAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTCAATAATGAT	562	QY	1621	GATCCCACTGACAGACAGCAAGGAGTGGCTTTGTAGTGGACAAAAACACCAAAATGCGCTAC	1680
QY	541	GAGAAATTTCTACTTATCCAAATGGAGATACAGCAGTAAGATGTTTACAGCAGTATTACT	600	Db	1643	GATCCCACTGACAGACAGCAAGGAGTGGCTTTGTAGTGGACAAAAACACCAAAATGCGCTAC	1702
Db	563	GAGAAATTTCTACTTATCCAAATGGAGATACAGCAGTAAGATGTTTACAGCAGTATTACT	622	QY	1681	CTCCAAATCCCAAGGCAATTTGCTAAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740
QY	601	GGTACAAATGTAGTAAAGAGTGTGAGGAGCAGCTGTGTACACCAAAAGATGCAATTC	660	Db	1703	CTCCAAATCCCAAGGCAATTTGCTAAGGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1762
Db	623	GGTACAAATGTAGTAAAGAGTGTGAGGAGCAGCTGTGTACACCAAAAGATGCAATTC	682	QY	1741	CAAACTTTGACCCCTGACTGTACGCTCCGCTGGTCCCAATGTACCTCCCTCCCAATTACA	1800
QY	661	AATAAGATTAACAGGACTCTATGAAAAGAGTGTGAGTGTGTTCTCCAAATCCCGCCAGAGG	720	Db	1763	CAAACTTTGACCCCTGACTGTACGCTCCGCTGGTCCCAATGTACCTCCCTCCCAATTACA	1822
Db	683	AATAAGATTAACAGGACTCTATGAAAAGAGTGTGAGTGTGTTCTCCAAATCCCGCCAGAGG	742	QY	1801	GTGACTTCCAAACCAACAAAGGACACACAGCAAAATTTCCCGAGCCCTCTGGTAGTTATGCA	1860
QY	721	GAGAAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780	Db	1823	GTGACTTCCAAACCAACAAAGGACACACAGCAAAATTTCCCGAGCCCTCTGGTAGTTATGCA	1882
Db	743	GAGAAGGCTTCTATATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	802	QY	1861	AATATTTCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGTGATGATCA	1920
QY	781	CAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATTCGCAAGCACA	840	Db	1883	AATATTTCGCAAGGAGCCCTCCCAATTTCTCAGGGCCAGTGTCAAGCCCTGTGATGATCA	1942
Db	803	CAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAAATGCAATTCGCAAGCACA	862	QY	1921	GTGAATGGAAAAACAGTTACCTTGGAACTACTTGGAACTACTTGGAACTACTTGGAACTACT	1980
QY	841	TGGAGAGTGAATCGTGAATTTCTGAGGACTTTAGAAAACCACTCTATGACACACAGCCA	900	Db	1943	GTGAATGGAAAAACAGTTACCTTGGAACTACTTGGAACTACTTGGAACTACTTGGAACTACT	2002
Db	863	TGGAGAGTGAATCGTGAATTTCTGAGGACTTTAGAAAACCACTCTATGACACACAGCCA	922	QY	1981	AGAGTACGGTGTCTACTCAAGGTATTTCAACAATTTATGACACAGAAATGATAGATACAGT	2040
QY	901	CCAAATCCCACTTCTCAATTCGAGTGGAGTGGACAAAGAAATTTGTGTTTAGTCTTGTAC	960	Db	2003	AGAGTACGGTGTCTACTCAAGGTATTTCAACAATTTATGACACAGAAATGATAGATACAGT	2062
Db	923	CCAAATCCCACTTCTCAATTCGAGTGGAGTGGACAAAGAAATTTGTGTTTAGTCTTGTAC	982	QY	2041	GTAAAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACGAGCGAGAGTATACCCAGCAG	2100
QY	961	AAATCTGGAAGCATGGCACTGTTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020	Db	2063	GTAAAAAGTGGGGCTCTGGGAGGAGTTAAACGACGACGAGCGAGAGTATACCCAGCAG	2122
Db	983	AAATCTGGAAGCATGGCACTGTTAAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1042	QY	2101	AGTGGAGCACTGTACATACCTGGCTGGATGAGATGAGAAATGAGAAATGAGAAATGAGAAAT	2160
QY	1021	TTCTGTGTGACAGAGTGTGGGTCTGGGTGGGATGGTGTGATTTGACAGTGT	1080	Db	2123	AGTGGAGCACTGTGTACATACCTGGCTGGATGAGATGAGAAATGAGAAATGAGAAATGAGAAAT	2182
Db	1043	TTCTGTGTGACAGAGTGTGGGTCTGGGTGGGATGGTGTGATTTGACAGTGT	1102	QY	2161	AGACCTGAAATTAATAGGATGATTTCAACAACAGCAAGTGTGTTTTCAGCAGCAATCC	2220
QY	1081	GCCCATGTACAAAGTGAACCTACATACAGATAAACAAGTGGCAGTGAACAGGACACACTCGCC	1140	Db	2183	AGACCTGAAATTAATAGGATGATTTCAACAACAGCAAGTGTGTTTTCAGCAGCAATCC	2242
Db	1103	GCCCATGTACAAAGTGAACCTACATACAGATAAACAAGTGGCAGTGAACAGGACACACTCGCC	1162	QY	2221	TCGGGAGGCTCATTTTGTGGCTTCTGATGTCCCAAAATGCTCCCAATGCTCCCAATGCTCCCA	2280
QY	1141	AAAAGATTACTGTCAGCAGCTTTCAGGAGGAGCGTCCATCTGACGCGGGCTTGGATCGGCA	1200	Db	2243	TCGGGAGGCTCATTTTGTGGCTTCTGATGTCCCAAAATGCTCCCAATGCTCCCAATGCTCCCA	2302
Db	1163	AAAAGATTACTGTCAGCAGCTTTCAGGAGGAGCGTCCATCTGACGCGGGCTTGGATCGGCA	1222	QY	2281	CTGGCCCAATACCCGACCTGAAGGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2340
QY	1201	TTTACTGTGATAGGAGAAATATCCAACTGATGATGATGATGATGATGATGATGATGATGATGAT	1260	Db	2303	CTGGCCCAATACCCGACCTGAAGGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2362
Db	1223	TTTACTGTGATAGGAGAAATATCCAACTGATGATGATGATGATGATGATGATGATGATGATGAT	1282	QY	2341	TGGACAGCTCTCTGGGATGATTTATGACCATGGAACAGCTCACAGTATATCATTCGAATA	2400
QY	1261	GGGGAAGACACACTATAAGTGGGTGTTTAAACGAGGTCAAAACAAAGTGGTGGCATCATC	1320	Db	2363	TGGACAGCTCTCTGGGATGATTTATGACCATGGAACAGCTCACAGTATATCATTCGAATA	2422
Db	1283	GGGGAAGACACACTATAAGTGGGTGTTTAAACGAGGTCAAAACAAAGTGGTGGCATCATC	1342	QY	2401	AGTACAAAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATCTACT	2460
QY	1321	CACACAGTGGTGGGCTCTGACGCTCAAGAACTAGAGAGTGTCCAAATGACA	1380	Db	2423	AGTACAAAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATCTACT	2482
Db	1343	CACACAGTGGTGGGCTCTGACGCTCAAGAACTAGAGAGTGTCCAAATGACA	1402	QY	2461	GCTCTCATCCAAAGGAGCAACTCTGAGGAAGTCTTTTTTGTAAACCAAGAAACAT	2520
QY	1381	GGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACTAGAGAGTGTCCAAATGACA	1440	Db	2483	GCTCTCATCCAAAGGAGCAACTCTGAGGAAGTCTTTTTTGTAAACCAAGAAACAT	2542
Db	1403	GGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACTAGAGAGTGTCCAAATGACA	1462	QY	2521	ACTTTTGAATAATGACAGATCTTTTTCATTTCTATTAGGCTGTGATGATGATGATGATGATGATGAT	2580
QY	1441	GGGCCCCCTTTCATCAGGAAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTGGAGTAAAG	1500	Db	2543	ACTTTTGAATAATGACAGATCTTTTTCATTTCTATTAGGCTGTGATGATGATGATGATGATGATGAT	2602
Db	1463	GGGCCCCCTTTCATCAGGAAATGAGAGTGTCTCTCAGCGCTCCATCCAGCTTGGAGTAAAG	1522				

QY 2581 AAATCAGAAATATCAACATTCACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA 2640  
DB |||||  
QY 2603 AAATCAGAAATATCAACATTCACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA 2662  
DB |||||  
QY 2641 GAGACACCTAGTCTGATGAAACGCTCTGCTCTTCTCTTAATTAATCAATCAACAGCACC 2700  
DB |||||  
QY 2663 GAGACACCTAGTCTGATGAAACGCTCTGCTCTTCTCTTAATTAATCAATCAACAGCACC 2722  
DB |||||  
QY 2701 ATTCCTGCGATTCACATTTTAAATTAATGTTGGAAGTGTGAGAGAACTGCGAGCTGTCA 2760  
DB |||||  
QY 2723 ATTCCTGCGATTCACATTTTAAATTAATGTTGGAAGTGTGAGAGAACTGCGAGCTGTCA 2782  
DB |||||  
QY 2761 ATAGCTAGGGGCTGAATTTTCTGAGATAATAATAAATCAATTCATCTCTTTTGTGA 2820  
DB |||||  
QY 2783 ATAGCTAGGGGCTGAATTTTCTGAGATAATAATAAATCAATTCATCTCTTTTGTGA 2842  
DB |||||  
QY 2821 TTATAAATTTTCTAATAATGTAATTTTAGACTTCTCTGTAGGGGCGATATACTAAATGTAT 2880  
DB |||||  
QY 2843 TTATAAATTTTCTAATAATGTAATTTTAGAAATCTCTGTAGGGGCGATATACTAAATGTAT 2902  
DB |||||  
QY 2881 ATAGTACATTTTATCTAATAATGTAATTTCTGTAGGGGCGATATACTAAATGTATTTAGAC 2940  
DB |||||  
QY 2903 ATAGTACATTTTATCTAATAATGTAATTTCTGTAGGGGCGATATACTAAATGTATTTAGAA 2962  
DB |||||  
QY 2941 TTCCTGTAGGGGCGATATAATAAATGCTAAACAACTGGGTA 2983  
DB |||||  
QY 2963 TTCCTGTAGGGGCGATATAATAAATGCTAAACAACTGGGTA 3005  
DB |||||

## RESULT 2

US-10-055-412B-27  
; Sequence 27, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 27  
; LENGTH: 3007  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-27

Query Match 99.6%; Score 2971.8; DB 4; Length 3007;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 2976; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 GAAATCAGAGGAGATGTACAGCAATGGGCCATTTAGAGTCTCTGTTCTCATCTTGATT 60  
DB 23 GGAATCAGAGGAGATGTACAGCAATGGGCCATTTAGAGTCTCTGTTCTCATCTTGATT 82  
QY 61 CTTCACTCTTAGAGGGGCGCTGAGTAATTCATCTCATTGAGCTGAACAACTGGCTAT 120  
DB 83 CTTCACTCTTAGAGGGGCGCTGAGTAATTCATCTCATTGAGCTGAACAACTGGCTAT 142  
QY 121 GAAGCATGTCTGTGCAATCGACCCCAATGTGCGAGAAGATGAACAACTCAATCAACAA 180  
DB 143 GAAGCATGTCTGTGCAATCGACCCCAATGTGCGAGAAGATGAACAACTCAATCAACAA 202  
QY 181 ATAAGGACATGGTACCCCGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTT 240  
DB 203 ATAAGGACATGGTACCCCGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTT 262  
QY 241 TATTTCAAAATATGTTGCCATTTTGTATCTCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300  
DB |||||

DB 263 TATTTCAAAATATGTTGCCATTTTGTATCTCTGAAACATGGAAGCAAAAGGCTGACTATGTG 322  
QY 301 AGACCAAACTGTGAGACTCAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCCA 360  
DB 323 AGACCAAACTGTGAGACTCAAAAATGCTGATGTTCTGGTTGCTGAGTCTACTCTCTCCA 382  
QY 361 GGTATGATGACCTTACACTGAGCAGATGGCACTGTGGAGAGAGGGTGAAGGATC 420  
DB 383 GGTATGATGACCTTACACTGAGCAGATGGCACTGTGGAGAGAGGGTGAAGGATC 442  
QY 421 CACCTCACTCTGATTTTCAATTCAGGAAAAAGTTAGCTGTAATATGGACCAAGAGTAGG 480  
DB 443 CACCTCACTCTGATTTTCAATTCAGGAAAAAGTTAGCTGTAATATGGACCAAGAGTAGG 502  
QY 481 GCATTTGTCATGATGGGCTCATCTACGATGGGAGATTTTGACGAGTACAAATATGAT 540  
DB 503 GCATTTGTCATGATGGGCTCATCTACGATGGGAGATTTTGACGAGTACAAATATGAT 562  
QY 541 GAGAAATTTCTACTTATCCAATGGGAGATATCAAGCAGTAAGATGTTTACGAGGATTTACT 600  
DB 563 GAGAAATTTCTACTTATCCAATGGGAGATATCAAGCAGTAAGATGTTTACGAGGATTTACT 622  
QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGCGAGCTGTACACCAAAAGATGCAATTC 660  
DB 623 GGTACAAATGTAGTAAAGAGTGTGAGGAGCGAGCTGTACACCAAAAGATGCAATTC 682  
QY 661 AATAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTCTCAATCCCGCAGACG 720  
DB 683 AATAAGTAAACAGGACTCTATGAAAAAGGATGTGAGTTTGTCTCTCAATCCCGCAGACG 742  
QY 721 GAGAGGCTTCTATAATGTTTGCACACATGTTGATCTTATAGTTGATTTCTGTACAGAA 780  
DB 743 GAGAGGCTTCTATAATGTTTGCACACATGTTGATCTTATAGTTGATTTCTGTACAGAA 802  
QY 781 CAAAACACAAACAAAGAGTCTCAAAACAAAGCAAAATCAAAATGCAATCTCCGAGACACA 840  
DB 803 CAAAACACAAACAAAGAGTCTCAAAACAAAGCAAAATCAAAATGCAATCTCCGAGACACA 862  
QY 841 TGGGAAGTGTATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTCTATGACAAACAGCCA 900  
DB 863 TGGGAAGTGTATCCGTGATTTCTGAGGACTTTAAGAAAAACCACTCTCTATGACAAACAGCCA 922  
QY 901 CCAATCCCACTTCTCATGCTGAGATTTGCAAAAGAAATTTGTTTGTCTGCTTGTAC 960  
DB 923 CCAATCCCACTTCTCATGCTGAGATTTGCAAAAGAAATTTGTTTGTCTGCTTGTAC 982  
QY 961 AAATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAATCAAGAGGCGCAGCTT 1020  
DB 983 AAATCTGGAAGCATGGGACTGGTAAACCGCTCAATCGACTGAATCAAGAGGCGCAGCTT 1042  
QY 1021 TTCCTGTGACAGACAGTTGAGTGGGCTCTGGGTCTGGGTGGGTGATGTTGACATTTGACAGTCT 1080  
DB 1043 TTCCTGTGACAGACAGTTGAGTGGGCTCTGGGTCTGGGTGGGTGATGTTGACATTTGACAGTCT 1102  
QY 1081 GCCCATGTACAAAGTGAACATCATACAGTAAACAGTGGCAGTGAAGGACACACATCGCC 1140  
DB 1103 GCCCATGTACAAAGTGAACATCATACAGTAAACAGTGGCAGTGAAGGACACACATCGCC 1162  
QY 1141 AAAAGATTAACCTGACAGCAGCTTACAGAGGAGCGTCCATCTGACGCGGCTTCGATCGGCA 1200  
DB 1163 AAAAGATTAACCTGACAGCAGCTTACAGAGGAGCGTCCATCTGACGCGGCTTCGATCGGCA 1222  
QY 1201 TTTACTGTGATTTAGGAAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGACCGAT 1260  
DB 1223 TTTACTGTGATTTAGGAAAGAAATATCCAACTGATGGATCTGAAATTTGCTGCTGACCGAT 1282  
QY 1261 GGGGAAGACACACTATTAAGTGGTGTCTTAAACGAGTCAAAACAAAGTGGTGCATCATC 1320  
DB 1283 GGGGAAGACACACTATTAAGTGGTGTCTTAAACGAGTCAAAACAAAGTGGTGCATCATC 1342  
QY 1321 CACACAGTCTGCTTTGGGCGCTCTGACAGTCAAGAACTAGAGGAGCTGCCAAATGACA 1380  
DB 1343 CACACAGTCTGCTTTGGGCGCTCTGACAGTCAAGAACTAGAGGAGCTGCCAAATGACA 1402

Qy	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGCCCTCATTTGATGCTTTT	1440
Db	1403	GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAAATGGCCCTCATTTGATGCTTTT	1462
Qy	1441	GGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
Db	1463	GGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1522
Qy	1501	GGATTAAACCTTCAGAACACAGCCAGTGATGAATGGCACAGTGTATCGTGGACAGCACCGTG	1560
Db	1523	GGATTAAACCTTCAGAACACAGCCAGTGATGAATGGCACAGTGTATCGTGGACAGCACCGTG	1582
Qy	1561	GGAAAGGACACTTTGTGTTTCTTTATCACTGGACAAACGAGCGCTCCCAAAATCTTCTCTGG	1620
Db	1583	GGAAAGGACACTTTGTGTTTCTTTATCACCTGGACAAACGAGCGCTCCCAAAATCTTCTCTGG	1642
Qy	1621	GATCCCAAGTGACAGAAAGCAAGGTGGCTTTGTAGTGGACAAAAACACCAAAATGGCGCTAC	1680
Db	1643	GATCCCAAGTGACAGAAAGCAAGGTGGCTTTGTAGTGGACAAAAACACCAAAATGGCGCTAC	1702
Qy	1681	CTCCAAATCCCAAGCAATGTCTAAGTTGGCACTTTGGAAATACAGTCTGCAAGCAAGTCA	1740
Db	1703	CTCCAAATCCCAAGCAATGTCTAAGTTGGCACTTTGGAAATACAGTCTGCAAGCAAGTCA	1762
Qy	1741	CAAACTTTGACCTGACTGTGTCAGTCCCGTGGCTCCAAATGCTACCTGCCCTCCAAATTACA	1800
Db	1763	CAAACTTTGACCTGACTGTGTCAGTCCCGTGGCTCCAAATGCTACCTGCCCTCCAAATTACA	1822
Qy	1801	GTGACTTCCAAAACGAAACAAAGCACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCA	1860
Db	1823	GTGACTTCCAAAACGAAACAAAGCACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCA	1882
Qy	1861	AATATTGCCAAGAGGCTCCCAATTTCTCAGGCCAGTGTCAAGCCCTGATGATCA	1920
Db	1883	AATATTGCCAAGAGGCTCCCAATTTCTCAGGCCAGTGTCAAGCCCTGATGATCA	1942
Qy	1921	GTGAATGGAAAAACAGTTTACTCTTGGAACTACTGGATAATGAGCAGAGTGTCTGATCTACT	1980
Db	1943	GTGAATGGAAAAACAGTTTACTCTTGGAACTACTGGATAATGAGCAGAGTGTCTGATCTACT	2002
Qy	1981	AAGGATGACGGTGTCTACTCAAGATATTTCAAACTTATGACAGAAATGGTAGATACAGT	2040
Db	2003	AAGGATGACGGTGTCTACTCAAGATATTTCAAACTTATGACAGAAATGGTAGATACAGT	2062
Qy	2041	GTAAGGTGGGGCTCTGGGAGGAGTTAAACGACCCAGACGGAGAGTATACCCACAG	2100
Db	2063	GTAAGGTGGGGCTCTGGGAGGAGTTAAACGACCCAGACGGAGAGTATACCCACAG	2122
Qy	2101	AGTGGAGCACTGTACATACCTCGCTGGATTGAGAAATGATGAAATACAAATGGAATCCACCA	2160
Db	2123	AGTGGAGCACTGTACATACCTCGCTGGATTGAGAAATGATGAAATACAAATGGAATCCACCA	2182
Qy	2161	AGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAACATCC	2220
Db	2183	AGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAACATCC	2242
Qy	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTCTCCAAATGCTCCCATACCTGATCTTCTCCCA	2280
Db	2243	TCGGGAGGCTCATTTGTGGCTTCTGATGTCTCCAAATGCTCCCATACCTGATCTTCTCCCA	2302
Qy	2281	CTGGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGGAGCTGTCATTAATCTGACT	2340
Db	2303	CTGGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGGAGCTGTCATTAATCTGACT	2362
Qy	2341	TGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCACAGTATATCATTCGAAATA	2400
Db	2363	TGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCACAGTATATCATTCGAAATA	2422
Qy	2401	AGTACAAAGTATCTTTGATCTCAGAGACAAGTTTCAATGAAATCTCTTCAAGTGAATFACT	2460
Db	2423	AGTACAAAGTATCTTTGATCTCAGAGACAAGTTTCAATGAAATCTCTTCAAGTGAATFACT	2482

Qy	2461	GCTCTCATCCAAAGGAAGCACA	CTCTGAGGAAGTCTTTTTTGT	TTAAACAGAAAAACATT	2520
Db	2483	GCTCTCATCCAAAGGAAGCACA	CTCTGAGGAAGTCTTTTTTGT	TTAAACAGAAAAACATT	2542
Qy	2521	ACTTTTGAAAATGGCAGAGAT	CTTTTCATTGCTATTACAGGCT	TGTTGATAAGGTCGATCTG	2580
Db	2543	ACTTTTGAAAATGGCAGAGAT	CTTTTCATTGCTATTACAGGCT	TGTTGATAAGGTCGATCTG	2602
Qy	2581	AAATCAGAAAATATCCAAAC	ATTGACAGAGTATCTTTGTTTA	TTCCTCCACAGACTCCGCCA	2640
Db	2603	AAATCAGAAAATATCCAAAC	ATTGACAGAGTATCTTTGTTTA	TTCCTCCACAGACTCCGCCA	2662
Qy	2641	GAGACACCTAGTCTGTATG	AAAGCGTCTGCTTGTGCTTA	TATTCATATCAACAGCACC	2700
Db	2663	GAGACACCTAGTCTGTATG	AAAGCGTCTGCTTGTGCTTA	TATTCATATCAACAGCACC	2722
Qy	2701	ATTCTCGGCATTACACAT	TTTTTAAAAAATATCTGGAAG	TGGATAGGAGAACTGCGAGCTGCA	2760
Db	2723	ATTCTCGGCATTACACAT	TTTTTAAAAAATATCTGGAAG	TGGATAGGAGAACTGCGAGCTGCA	2782
Qy	2761	ATAGCCTAGGCGTGAAT	TTTTTGTTCAGATAAATAA	TAATCACTCTTTTTTTTGA	2820
Db	2783	ATAGCCTAGGCGTGAAT	TTTTTGTTCAGATAAATAA	TAATCACTCTTTTTTTTGA	2842
Qy	2821	TTATAAAATTTTCTAAAT	GTATTTTAGACTTCTGTAGG	GGCGATATACTAAATGTAT	2880
Db	2843	TTATAAAATTTTCTAAAT	GTATTTTAGACTTCTGTAGG	GGCGATATACTAAATGTAT	2902
Qy	2881	ATAGTACATTTATACATAA	ATGTATCTGTAGGGGGCGAT	ATATACTAAATGTATTTAGAC	2940
Db	2903	ATAGTACATTTATACATAA	ATGTATCTGTAGGGGGCGAT	ATATACTAAATGTATTTAGAC	2962
Qy	2941	TTCTGTAGGGGGCGATAA	ATAAATAAATGCTAAACA	CACTGGGTA	2983
Db	2963	TTCTGTAGGGGGCGATAA	ATAAATAAATGCTAAACA	CACTGGGTA	3005

RESULT 3

US-09-623-624-5  
; Sequence 5, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

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; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-09-623-624-5

Query Match      92.0%; Score 2743; DB 4; Length 2745;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2743; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 25 ATGGGGCCATTAAAGAGTCTGTGTTCACTCTTGTGATCTTCACTTCTAGAGGGGCCCTG 84
Db 1 ATGGGGCCATTAAAGAGTCTGTGTTCACTCTTGTGATCTTCACTTCTAGAGGGGCCCTG 60

QY 85 AGTAATTCACATTCAGCTGAACAACAATGCTATGAGGCATGCTGTTGCAATCGAC 144
Db 61 AGTAATTCACATTCAGCTGAACAACAATGCTATGAGGCATGCTGTTGCAATCGAC 120

QY 145 CCCAATGTGCCAGAGATGAACACTCACTTCAACAAATAAAGGACATGGTGACCCAGGCA 204
Db 121 CCCAATGTGCCAGAGATGAACACTCACTTCAACAAATAAAGGACATGGTGACCCAGGCA 180

QY 205 TCTCTGATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTTG 264
Db 181 TCTCTGATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTTG 240

QY 265 ATTCCTGAAAATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
Db 241 ATTCCTGAAAATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 300

QY 325 AATGCTGATGTTCTGGTGTGAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTGAG 384
Db 301 AATGCTGATGTTCTGGTGTGAGTCTACTCTCCAGGTAAATGATGAACCCCTACACTGAG 360

QY 385 CAGATGGCAACTGTGGAGAGAGAGGTGAAGATGCCACCTCACTCTGATTTCAATGCA 444
Db 361 CAGATGGCAACTGTGGAGAGAGAGGTGAAGATGCCACCTCACTCTGATTTCAATGCA 420

QY 445 GGAATAAGATGATGATGAGCAACCAAGGTAGGCAATTTGCCATGAGTGGCTCAT 504
Db 421 GGAATAAGATGATGATGAGCAACCAAGGTAGGCAATTTGCCATGAGTGGCTCAT 480

QY 505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTCAATGGA 564
Db 481 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTATTCAATGGA 540

QY 565 AGAATACAGCAGTAAGATGTTACGAGGTATTTACTGTTCAAAATGATGAAGAGTGT 624
Db 541 AGAATACAGCAGTAAGATGTTACGAGGTATTTACTGTTCAAAATGATGAAGAGTGT 600

QY 625 CAGGAGGACGCTGTTACACAAAGATGCATTTCAATAAGTAACAGGACTCTATGAA 684
Db 601 CAGGAGGACGCTGTTACACAAAGATGCATTTCAATAAGTAACAGGACTCTATGAA 660

QY 685 AAAGGATGTGATGTTGTTCTCCAATCCCGCAGAGGAGGCTTCTATATGTTTGCA 744
Db 661 AAAGGATGTGATGTTGTTCTCCAATCCCGCAGAGGAGGCTTCTATATGTTTGCA 720

QY 745 CAACATGTTGATTTCTATAGTTGAATTTCTGTGACAGAAACCAACCAAGAGGCTCCA 804
Db 721 CAACATGTTGATTTCTATAGTTGAATTTCTGTGACAGAAACCAACCAAGAGGCTCCA 780

QY 805 AACAGCAAAATCAAAATCAATCTCCGAGACCATGGGAGTGCATCCGTTACTTGAG 864
Db 781 AACAGCAAAATCAAAATCAATCTCCGAGACCATGGGAGTGCATCCGTTACTTGAG 840

QY 865 GACITTTAAGAAAACACCTCTTATGACAAACACAGGCCACCAAAATCCCACTTCTCATTTGCTG 924
Db 841 GACITTTAAGAAAACACCTCTTATGACAAACACAGGCCACCAAAATCCCACTTCTCATTTGCTG 900

QY 925 CAGATTTGACAAAGAAATTTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGCGACTGCT 984
Db 901 CAGATTTGACAAAGAAATTTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGCGACTGCT 960

QY 985 AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGACAGACAGTTGAGCTG 1044
Db 961 AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGACAGACAGTTGAGCTG 1020

QY 1045 GGGTCTCTGGGTTGGGATGCTGACATTTGACAGTGTGCTGCCATGTACAAAGTCAACTCATTA 1104
Db 1021 GGGTCTCTGGGTTGGGATGCTGACATTTGACAGTGTGCTGCCATGTACAAAGTCAACTCATTA 1080

QY 1105 CAGATAAACAGTGGCAGTGACAGGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCA 1164
Db 1081 CAGATAAACAGTGGCAGTGACAGGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCA 1140

QY 1165 GGAGGAGCTCCATCTGACGCGGGCTTCGATCGGCATTTACTGTGATTTAGGAAGAAATAT 1224
Db 1141 GGAGGAGCTCCATCTGACGCGGGCTTCGATCGGCATTTACTGTGATTTAGGAAGAAATAT 1200

QY 1225 CCAACTGATGGATCTGAAAATTTGTGCTGCTGACGGATGGGAGACAACTATTAAGTGG 1284
Db 1201 CCAACTGATGGATCTGAAAATTTGTGCTGCTGACGGATGGGAGACAACTATTAAGTGG 1260

QY 1285 TGTCTTAAAGAGGTCAAAACAAAGTGGTCCATCATCTCAACAGTGCCTTTGGGGCCCTCT 1344
Db 1261 TGTCTTAAAGAGGTCAAAACAAAGTGGTCCATCATCTCAACAGTGCCTTTGGGGCCCTCT 1320

QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCGAAATGACAGAGGTTTACAGACATATCTTCA 1404
Db 1321 GCAGCTCAAGAACTAGAGGAGCTGTCGAAATGACAGAGGTTTACAGACATATCTTCA 1380

QY 1405 GATCAAGTTTCAGAAACAATGGGCTCAATTTGGGGCCCTTTTCATCAGGAAATGGA 1464
Db 1381 GATCAAGTTTCAGAAACAATGGGCTCAATTTGGGGCCCTTTTCATCAGGAAATGGA 1440

QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAG 1524
Db 1441 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACCCCTCCAGAACAGCCAG 1500

QY 1525 TGGATGAATGGCACAGTGATCGTGGACAGACCGTGGGAAAGGACACTTTGTTCTTATC 1584
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QY 1585 ACCTGGCAACGCGACCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGACAGCAAGT 1644
Db 1561 ACCTGGCAACGCGACCTCCCAAAATCCTTCTCTGGGATCCAGTGGACAGACAGCAAGT 1620

QY 1645 GGCTTTGTAGTGGACAAACACCAAAATGGCCCTTACCTCCAAATCCCAAGGCAATGCTAAG 1704
Db 1621 GGCTTTGTAGTGGACAAACACCAAAATGGCCCTTACCTCCAAATCCCAAGGCAATGCTAAG 1680

QY 1705 GTTCGCACTTGGAAATACAGTCTCGAAGCAGCTCAAAACCTTGAACCTGACTGTACG 1764
Db 1681 GTTCGCACTTGGAAATACAGTCTCGAAGCAGCTCAAAACCTTGAACCTGACTGTACG 1740

QY 1765 TCCCGTGGCTCCAAATGCTTACCTGCTCCCAATTCAGTGTCTCCAAACCAAGGAC 1824
Db 1741 TCCCGTGGCTCCAAATGCTTACCTGCTCCCAATTCAGTGTCTCCAAACCAAGGAC 1800

QY 1825 ACCAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCCTCCCA 1884
Db 1801 ACCAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAAGGAGCCCTCCCA 1860

QY 1885 ATTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCAGTGAATGGAAGAAACAGTTACCTTG 1944
Db 1861 ATTCTCAGGGCCAGTGTCAAGCCCTGATTTGAATCAGTGAATGGAAGAAACAGTTACCTTG 1920

QY 1945 GAACCTACTGATTAATGGAGCAGGTGCTGCTACTACTAAGGATGACGCTGTCTACTCAAGG 2004
Db 1921 GAACCTACTGATTAATGGAGCAGGTGCTGCTACTACTAAGGATGACGCTGTCTACTCAAGG 1980
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QY 2065 GTTAAAGGAGGAGGAGGAGTGTATCCAGAGAGAGTGGAGCACTGTACATACCTGGC 2124
Db 2041 GTTAAAGGAGGAGGAGGAGTGTATCCAGAGAGAGTGGAGCACTGTACATACCTGGC 2100
QY 2125 TGGATTGGAATGATGAATAAATCAATGGAATCCACCAAGACCTGAAATTAATAAGATGAT 2184
Db 2101 TGGATTGGAATGATGAATAAATCAATGGAATCCACCAAGACCTGAAATTAATAAGATGAT 2160
QY 2185 GTTCAACACAGCAAGTGTGTTTCAGCAGAACATCCTGGGAGGCTCAATTTGTGCTTCT 2244
Db 2161 GTTCAACACAGCAAGTGTGTTTCAGCAGAACATCCTGGGAGGCTCAATTTGTGCTTCT 2220
QY 2245 GATGTCCCAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAG 2304
Db 2221 GATGTCCCAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAG 2280
QY 2305 GCGGAAATTCAGGGGAGTCTCTAATTAATCTGAATGAGCAAGCTCCTGGGAGATGATAT 2364
Db 2281 GCGGAAATTCAGGGGAGTCTCTAATTAATCTGAATGAGCAAGCTCCTGGGAGATGATAT 2340
QY 2365 GACCATGGAACAGCTCACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGA 2424
Db 2341 GACCATGGAACAGCTCACAAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGA 2400
QY 2425 GACAAAGTTCATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCCAAAC 2484
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Db 2581 CGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCAGAGACACCTAGTCTGATGAAACG 2640
QY 2665 TCTGCTCCTTGTGCTTAATTCATATCAACAGACCAATTCCTGGCAATTCACATTTTAAA 2724
Db 2641 TCTGCTCCTTGTGCTTAATTCATATCAACAGACCAATTCCTGGCAATTCACATTTTAAA 2700
QY 2725 ATTATGTGAAGTGGATAGAGAACTGCAGCTGTCAATAGCCTAG 2769
Db 2701 ATTATGTGAAGTGGATAGAGAACTGCAGCTGTCAATAGCCTAG 2745
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## RESULT 4

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US-10-270-595-5
; Sequence 5, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magalini Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 2745
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(2742)
US-10-270-595-5
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Query Match 92.0%; Score 2743; DB 4; Length 2745;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2743; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 25 ATGGGGCCATTTAAGAGTTCTGTGTTCATCTTGATTTCTTACCTTCTAGAGGGCCCTG 84
Db 1 ATGGGGCCATTTAAGAGTTCTGTGTTCATCTTGATTTCTTACCTTCTAGAGGGCCCTG 60
QY 85 AGTAATTCACATTCACCTGAAACAAATGGCTATGAGGCAATTCGTTCATTCGAC 144
Db 61 AGTAATTCACATTCACCTGAAACAAATGGCTATGAGGCAATTCGTTCATTCGAC 120
QY 145 CCCAATGTCCAGAGAGTGAACACTCTTCAACAAATTAAGGACATGGTGACCCAGGCA 204
Db 121 CCCAATGTCCAGAGAGTGAACACTCTTCAACAAATTAAGGACATGGTGACCCAGGCA 180
QY 205 TCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG 264
Db 181 TCTCTGTATCTGTTTGAAGCTACAGGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG 240
QY 265 ATTCCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAAACTTGAGACCTACAAA 324
Db 241 ATTCCTGAAACATGGAAGACAAAGCTGACTATGTGAGACCAAAACTTGAGACCTACAAA 300
QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 384
Db 301 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTTACACTGAG 360
QY 385 CAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCCTGATTTTCAATTGCA 444
Db 361 CAGATGGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCCTGATTTTCAATTGCA 420
QY 445 GGAAGAAAGTTAGCTGAATATGACCAAGTAGGCAATTTGTCATGAGTGGGCTCAT 504
Db 421 GGAAGAAAGTTAGCTGAATATGACCAAGTAGGCAATTTGTCATGAGTGGGCTCAT 480
QY 505 CTAACATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCCAATGGA 564
Db 481 CTAACATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCCAATGGA 540
QY 565 AGAATACAGCAGTAAAGTGTTCACAGGTATTTACTGTGACAAATGTAGTAAAGAGTGT 624
Db 541 AGAATACAGCAGTAAAGTGTTCACAGGTATTTACTGTGACAAATGTAGTAAAGAGTGT 600
QY 625 CAGGAGGAGCAGCTGTTACACCAAGATGCCAATTCATTAAGTAGTACAGACTCTATGAA 684
Db 601 CAGGAGGAGCAGCTGTTACACCAAGATGCCAATTCATTAAGTAGTACAGACTCTATGAA 660
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Qy	585	AAAGGATGTGAGTTTGGTTTCTTCCAAATCCGCCAGACGGAGAAAGGCTTCTATAATGTTTGGCA	744
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Qy	745	CAACATGTTGATTCCTATAGTTTGAATCTGTGACAGAAACAAACACCAACAAAGAGAGCTTCCA	804
Db	721	CAACATGTTGATTCCTATAGTTTGAATCTGTGACAGAAACAAACACCAACAAAGAGAGCTTCCA	780
Qy	805	AACAGGCAAAATCAAAAATCGAATCTCCGAAGACACATGGGAAGTGATCCCGTGATTTCTGAG	864
Db	781	AACAGGCAAAATCAAAAATCGAATCTCCGAAGACACATGGGAAGTGATCCCGTGATTTCTGAG	840
Qy	865	GACTTTAAGAAAAACCATCTTATGACAAACACAGCGCACCAAAATCCCATCTTCTCATTTGCTG	924
Db	841	GACTTTAAGAAAAACCATCTTATGACAAACACAGCGCACCAAAATCCCATCTTCTCATTTGCTG	900
Qy	925	CAGATTGCACAAAGAAATGTGTGTTTATGTCCTTCGACAAATCTGGAAGCATGGCGACCTGGT	984
Db	901	CAGATTGCACAAAGAAATGTGTGTTTATGTCCTTCGACAAATCTGGAAGCATGGCGACCTGGT	960
Qy	985	AACCGCCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGCTGCAGACAGATTTGAGCTG	1044
Db	961	AACCGCCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGCTGCAGACAGATTTGAGCTG	1020
Qy	1045	GGTCTCTGGTTGGATGGTGACATTTTGACAGTGTGCCATGTACAAAGTGAACACTCAT	1104
Db	1021	GGTCTCTGGTTGGATGGTGACATTTTGACAGTGTGCCATGTACAAAGTGAACACTCAT	1080
Qy	1105	CAGATAAACGCTGGCAGTGACAGGACACACTCCGCCAAAGATTTACCTGCAGCAGCTTCA	1164
Db	1081	CAGATAAACGCTGGCAGTGACAGGACACACTCCGCCAAAGATTTACCTGCAGCAGCTTCA	1140
Qy	1165	GGAGGACGTCCTCATCTGCAGCGGGCTTCGATCGGCATTTTACTGTGATTTAGGAAGAAATAT	1224
Db	1141	GGAGGACGTCCTCATCTGCAGCGGGCTTCGATCGGCATTTTACTGTGATTTAGGAAGAAATAT	1200
Qy	1225	CCAACTGATGATCTGAAATTTGCTGTGCTGTGACGATCGGGAAGACAACTATTAAGTGGG	1284
Db	1201	CCAACTGATGATCTGAAATTTGCTGTGCTGTGACGATCGGGAAGACAACTATTAAGTGGG	1260
Qy	1285	TGCTTTTAACGAGGTCAACAAAGTGGTGCCATCATCCACACAGTCGCTTTTGGGGCCCTCT	1344
Db	1261	TGCTTTTAACGAGGTCAACAAAGTGGTGCCATCATCCACACAGTCGCTTTTGGGGCCCTCT	1320
Qy	1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTTACAGACATATGCTTCA	1404
Db	1321	GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGGAGTTTTACAGACATATGCTTCA	1380
Qy	1405	GATCAAGTTTCAGAACATATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGA	1464
Db	1381	GATCAAGTTTCAGAACATATGGCCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGA	1440
Qy	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTTAAACCTCTCAGAACAGCCAG	1524
Db	1441	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTTAAACCTCTCAGAACAGCCAG	1500
Qy	1525	TGGATGAATGGCACAGTGATCGTGGACAGACCGGTGGGAAAGGACACTTTGCTTTCTTTATC	1584
Db	1501	TGGATGAATGGCACAGTGATCGTGGACAGACCGGTGGGAAAGGACACTTTGCTTTCTTTATC	1560
Qy	1585	ACCTGGACAAACGACGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGGT	1644
Db	1561	ACCTGGACAAACGACGCTCCCAAAATCCTTCTCTGGATCCAGTGGACAGAAAGCAAGGT	1620
Qy	1645	GGCTTTGTAGTGGACAAAAACACCAAAATGCGCTACCTCCAAATCCAGGGCATTTGCTAAG	1704
Db	1621	GGCTTTGTAGTGGACAAAAACACCAAAATGCGCTACCTCCAAATCCAGGGCATTTGCTAAG	1680
Qy	1705	GTTGGCACTTGGAAATACAGTCTGCAGCAAGAGCTCACAAACCTTTGACCTGACGTGTCAAG	1764
Db	1681	GTTGGCACTTGGAAATACAGTCTGCAGCAAGAGCTCACAAACCTTTGACCTGACGTGTCAAG	1740
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[illegible]

RESULT 5  
US-09-623-624-1  
; Sequence 1, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:





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1582 ATCACTGGACAACGACGCTCCGCCAAATCCTTCTCTGGGATCCCAAGTGGACAGAA 1641  
1568 ATCACTGGACAACGACGCTCCCTCAATAATTTATCTGGGATCCCAAGGAGTGGACA 1627  
1642 GGTGGCTTTGAGTGGACAAAACACCAAAATGGCTTACCTCCAAATCCAGGACATTC 1701  
1628 AATGGTTTTATCTAGACACAAACCAATTAAGTGGCTTACCTCCAAATCCAGGACG 1687  
1702 AAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTCACCTCCTACT 1761  
1688 AAGTTGGCTTTTGGAAATACAGATTTCAAGGAGCTCACAGACTCTCACCTTGACTG 1747  
1762 ACGTCCCGTGGCTCAATGCTACCTCGCTCCCAATTAAGTGGCTTCCAAACCAAG 1821  
1748 ACTCCCGTGCAGCAAGTGTCTACACTGCTCTCTTATCAAGTGACCCCGTAGTGA 1807  
1822 GACACCAAGCAATTCGCCAGCCCTCTGTAGTATGCAATATTCGCCAAGGACCTCC 1881  
1808 AACACAGGAAATTCGCCAGCCCTGTAAACAGTGTATGCAAGATTCGCCAAGGACCT 1867  
1882 CCAATTTCTCAGGCGCAGTGTACAGCCCTGATGAATCAGTGAATGGAACCAAGTACC 1941  
1868 CCTATTCTCAGGCGCAGGTCACAGCTTGTATGATCTGATGGAATGGAACCAAGTACC 1927  
1942 TTGAACTACTGGATAATGAGGAGGCTGCTGATCTACTAAGGATGACGGTGTCTACTCA 2001  
1928 CTGGAATTAAGTGAATACGAGGAGGTCGCGATGCCCAAGATGATGGTGTCTACTCA 1987  
2002 AGGTATTTCACAACTTATGACACCAATGTTAGATACAGTGTAAAGTGGGCTCTGGGA 2061  
1988 AGGTTTTTTACAGCTTTTGTATGCAATGTTAGATACAGCGTTAAATATGCGCTCTGGGA 2047  
2062 GGAGTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGAGCACTGTACATACCT 2121  
2048 GGAGTCACTTCAGACAGACAGAGCAGCACTCGAAGAACAGAGCCATGTATAGAT 2107  
2122 GGCTGGATGGAATGAATGAATCAATGGAATCCACCAAGCCTGGAATTAATGAAGAT 2181  
2108 GGCTGGATGGAATGGAATGAATGAATGAATGAATGAATGAATGAATGAATGAAT 2161  
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2222 ACCAATGTCCCGCAGCAGCTCCCATTTCTGACCTCTTTCACCTGTCAAAATCACTGAC 2281  
2299 CTGAAGGGGGAATTCACGGGGGAGTCTCTAATTAATCTGATTTGGACAGCTCTCTGGGAT 2358  
2282 CTGAAGGCCAGCATCCAAAGGCGAGAACCTGTTGATCTGACGTGGAACGCTCTCTGGGAT 2341  
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2419 CTCAGACAGAGTTCATATGAATCTCTTCAAGTGAATATCTATCTCTCTCAATCCAAAGAA 2478  
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2462 GCCAGCTCTGAGGAAATCTTTGAGTTTGAATCTGGAGGCAACACTTTTGAATGGCACA 2521  
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## RESULT 6

US-10-270-595-1  
; Sequence 1, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2931  
; TYPE: DNA  
; ORGANISM: Mus musculus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (8)..(2746)  
US-10-270-595-1

Query Match 59.1%; Score 1764; DB 4; Length 2931;  
Best Local Similarity 77.5%; Pred. No. 0;  
Matches 2212; Conservative 0; Mismatches 615; Indels 29; Gaps 5;  
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85 AGTAATTCATCTCATTCAGCTGAAACACATGGCTATGAGGCAATTCGTTGCAATCGAC 144

Db 68 AGTGAGTCCCTCATCCAACTGAAACAAACCGCTATGAGGGCATCGTCATCGCCATAGAC 127  
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Qy 682 GAAAGAGATGAGTGTGTTCTCAATCCCGCCAGACGAGAGAGGCTTCTATATGTTT 741  
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Qy 742 GCACAACATGTTGATTTCTATAGTCAATCTGTACAGACAAACCAACAAAGAGCT 801  
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Qy 922 CTGCAGATTGCAAGAAATGTGTGTTTGTAGTCCCTTGAACATCTGGAAGCATGCGACT 981  
Db 908 CTGCAAAATGCAAGAAATGTGTGTTTGTAGTTCCTGATAGTCCGGAGCATGCTGAAC 967  
Qy 982 GGTAAACCCCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTGCTGCAGACAGTTGAG 1041  
Db 968 GATGATCGTCTTAACCGAATGAATCAGGCAAGCCCGCTTTTCTGCTGCAGACTGTGGAG 1027  
Qy 1042 CTGGGCTCTGGGTTGGAGTGTGACATTTGACAGTGTGCCCATGTACAAAGTGAATC 1101  
Db 1028 CAGGATCTCTGGGTCGGGATGTGACTTTTGAAGTGTGCTGCTATGATGAAGCGAATC 1087  
Qy 1102 ATACAGATTAACAGTGGCAGTACAGGGACACACTCGCCAAAGATTTACCTGCAGCAGT 1161  
Db 1088 AAACAGTTAAACAGTGGTGTGACAGAGATCTGTGATCAAGCATTTACCCACATATCT 1147  
Qy 1162 TCAGGAGGAGCTTCATCTGACGCGGCTTCGATCGGCATTTTACTGTGATTAGGAAGAA 1221

Db 1148 GCAGAGGGACATCTATATGCTCTGGCCTTCGGACAGCATTTACAGTGATAAAGAAGAAG 1207  
Qy 1222 TATCCAACTGATGATCTGAAATTTGTCTGCTGAGATGGGAGAGACAAACACTATTAAT 1281  
Db 1208 TATCCAACTGATGATCTGAAATTTGTCTGCTGACCGATGGGAGAGACAAACCACTTAGC 1267  
Qy 1282 GGGTCTTTTACGAGAGTCAAAACAAAGTGTGCCATCATCCACACAGTCTGCTTTGGGGCC 1341  
Db 1268 AGCTGCTTTGACCTGGTGAACAGAGGGGGCCATCATCCATACAGTGGCCCTGGGACCG 1327  
Qy 1342 TCTCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGGTTTACAGACATATCT 1401  
Db 1328 GCTCCGCTAAAGAGCTTGAGCAGCTGTCCAAAATGACAGAGGCTTCAGACATACCT 1387  
Qy 1402 TCAGATCAGTTTCAAGCAATGGGCTCATTCATGCTTTTGGGGCCCTTTTCATCAGAAAT 1461  
Db 1388 TCGATCAGTTCAGAACAAATGGTCTTGTATGCTTTTCGACGACCTCTCTCAGGAAAT 1447  
Qy 1462 GGAGCTGCTCTCAGCGCTCCATCCAGCTTCAGAGTAAGGGATTAAACCTCCAGAACAGC 1521  
Db 1448 GCGGGATCTGCTCAGACTCCATCCAGCTGAGAGCAGGAGTTAATCTCCAGATTAAC 1507  
Qy 1522 CAGTGGATGAATGACACAGTCACTGTGACAGCACCGTGGGAAAGGACACTTTGTTCTT 1581  
Db 1508 CAATGGATGAATGCTCAGTCACTGATCGTGACAGCTCGTGGGCAAGGACACCTTTGTTCT 1567  
Qy 1582 ATCAGCTGGACAAACGAGCTCCCAATCTTCTCTGGATCCAGTGGACAGAGCAA 1641  
Db 1568 ATCAGCTGGACAAACGAGCTCCCTCAATATTTATCTGGATCCAGCGGAGTGGAA 1627  
Qy 1642 GGTGCTTTGTAGTGGCAAAAAACCAAAAATGGCTACCTCCAAATCCAGGCAATGCT 1701  
Db 1628 AATGTTTATCTAGACACAAACCACTAAGTGGCTACCTCCAGTCCAGGCAAGCT 1687  
Qy 1702 AAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAACCTTGACCTGACTGTC 1761  
Db 1688 AAGTGGCTTTTGGAAATACAGCATTCAGCGAGCTCACAGACTCTCACCTTGACTGTC 1747  
Qy 1762 ACGTCCGCTGGTCCAAATGCTACCTGCTCCATTCAGTGAAGTCTCCAAACAGACAG 1821  
Db 1748 ACCTCCGCTGAGCAAGTGTACACTGCTCCTTATACAGTGAACCCCGTGTGAATAG 1807  
Qy 1822 GACACCAAGCAATTCGCCAGCCCTCTGGTAGTTATGCAAAATATTCGCCAAGGAGCCCTCC 1881  
Db 1808 AACACAGGAAATTCGCCAGCCCTGTACAGTGTATGCAAGCATTCGCCAAGGAGCCCTCG 1867  
Qy 1882 CCAATTCCTCAGGCGCAGTGTCAAGCCCTGATGAATCAAGTGAATGGAAGAAACAGTTACC 1941  
Db 1868 CCAATTCCTCAGGCGCAGGCTCAAGCCCTGATTTGAATCTGTGAATGGAAGAAACAGTAA 1927  
Qy 1942 TTGGAATCTGGAATATGGAGCAGGCTGCTGATGCTACTAAGGATGACGGTGTCTACTCA 2001  
Db 1928 CTGGAATTTACTGGAATACGGAGCAGGTCCTGATGCAACCAAGATGATGGTGTCTACTCA 1987  
Qy 2002 AGGTATTTTCAAACTTATGACACGAATGATAGATACAGTGTAAAAGTGGGGCTCTGGGA 2061  
Db 1988 AGGTTTTTACAGCTTTTGTATGCAAAATGATAGATACAGCTTTAATATGGCTCTGGGA 2047  
Qy 2062 GGAGTTAACAGCAGCAGGAGTGTATACCCAGCAGAGTGGAGCACTGTATACACT 2121  
Db 2048 GGAGTCACTTCAGACAGACAGAGCAGCAGCTCCGAAGAACAGAGCCATGTACATAGAT 2107  
Qy 2122 GGCTGGAATGGAATGATGAATCAATGGAATCCACCAAGACCTGAAATTAATAAGAT 2181  
Db 2108 GGCTGGAATGAGGATGGTGAAGTGAATGAATGAACCCACCGTCTCTGAAACTA-----GT 2161  
Qy 2182 GATGTTCAACACAAAGTGTGTTTACAGCAGAACATCTCTGGGAGGCTCATTTTGTGGCT 2241  
Db 2162 TATGTTCAAGACAGCAGCTGTGCTTCAGAGGACATCTTCAGGGGGATCGTTTGTGGCC 2221  
Qy 2242 TCTGATGTC---CAATGCTCCCATCTGATCTCTTCCACCTGGCCCAATCACCAGC 2298  
Db 2222 ACCAATGTCCCGCAGCAGCTCCCATCTCTGACCTTTTCCACCTGTCAAAATCACTGAC 2281

Qy	2299	CTGAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTTGGACAGCTCCTCGGGAT	2358
Db	2282	CTGAAGCCAGCATCCAAGGCGAGAACCTGGTGAATCTGACGTGGACGGCTCCTGGGAT	2341
Qy	2359	GATTTATGACCATGGAAACAGCTCAAGATATATCATTCGAATAGTACAAGATATCTTTGAT	2418
Db	2342	GACTACGACCACGGGAGAGCTTCCAACATACATATCCGAATGAGCAGCATGCTGTGAT	2401
Qy	2419	CTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAA	2478
Db	2402	CTCAGGACCATTCAACACTCACTCCAAGTGAACACTACCGGTCTTATCCCCAAAGAG	2461
Qy	2479	GCCAACTCTCAGGAAGCTTTTGTGTTAAACGAGAAACAATTACTTTGAAATGGCACA	2538
Db	2462	GCCAGCTCTCAGGAAATCTTTGAGTTTGAACCTGGAGGCAACACTTTTGGAAATGSCACA	2521
Qy	2539	GATCTTTTCATTGCTATTTCAGGCTGTGTGATAAGTTCGATCTGAATCAGAAATATCCAAC	2598
Db	2522	GATATCTTCATTGCTATPCACGGCTGTGGATAAGTCCAATCTGAATCAGAAATCTCCAAC	2581
Qy	2599	ATTGCACGAGTATCTTTGTTTATTCTCTCCACAGACTCCGCGACGAGACACTAGCTCTGAT	2658
Db	2582	ATTGCACGGGTGCTGTGTTTCATCCCGCTCAG-----GAGCGGCCCATCCGHA	2632
Qy	2659	GAACCGTCTGCTCCTTGTCCTAATATTCATCAACAGACACCAATTCCTGGCATTCACATT	2718
Db	2633	GACTCAACTCCCGCTGTCTTGACATCAGCATCAACAGACACCATTCCTGGCATCCACGTG	2692
Qy	2719	TTAAAAATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCCTAGGCGCTGAATT	2778
Db	2693	CTGAAGATATGTGGAGTGGCTAGGGGAATGCAGTGACACTAGGTTTGCACCTGAATT	2752
Qy	2779	TTTGTGAGATAAATAAATAAATCAATTCATCCCTTTTTTTTGATTATATAAATTTCTAAAA	2838
Db	2753	TTCAGGCAAGAAATCAACCA-----GTCACTCTCTTCACCTGGAGAAATTTCTAAAA	2804
Qy	2839	TGTATTTTACATTCCTGTAGGGGGGAGATATACTAA	2874
Db	2805	TGTACTTTAGACTTCCTGTAGGGGGGGTATAGTAA	2840

RESULT 7  
US-09-016-434-850  
; Sequence 850, Application US/09016434  
; Patent No. 6500938  
; GENERAL INFORMATION:  
; APPLICANT: Janice Au-Young  
; APPLICANT: Jeffrey J. Seilhamer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING  
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION  
; NUMBER OF SEQUENCES: 1490  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/016,434  
; FILING DATE: HERewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:

Qy 2081 GGAGGTGATACCCAGAGAGTGGAGCAGTGTATACATCTGGTGGATTGAGATGATG 2140  
Db |||||  
Qy 781 GGAGGTGATACCCAGAGAGTGGAGCAGTGTATACATCTGGTGGATTGAGATGATG 840  
Db |||||  
Qy 2141 AAATACATGAATCCACCAAGACTGAAATTAATAAGGATGATTTCAACACAGCAAG 2200  
Db |||||  
Qy 841 AAATACATGAATCCACCAAGACTGAAATTAATAAGGATGATTTCAACACAGCAAG 900  
Db |||||  
Qy 2201 TGTGTTTCCAGAGAAATCTCTGGGAGCTCATTTGTGGTCTGATGTCCTCAATGTC 2260  
Db |||||  
Qy 901 TGTGTTTCCAGAGAAATCTCTGGGAGCTCATTTGTGGTCTGATGTCCTCAATGTC 960  
Db |||||  
Qy 2261 CCATCTGATCTCTTCCCACTGGCCAAATCACCAGCTGAAGCGGAATTCACGGG 2320  
Db |||||  
Qy 961 CCATCTGATCTCTTCCCACTGGCCAAATCACCAGCTGAAGCGGAATTCACGGG 1020  
Db |||||  
Qy 2321 GCAGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATTTATGACCATGGAACAGTC 2380  
Db |||||  
Qy 1021 GCAGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATTTATGACCATGGAACAGTC 1080  
Db |||||  
Qy 2381 ACAAGTATATCATTCGAATAGTACAGTATCTTGTATCTCAGACACAGTTCATGAAT 2440  
Db |||||  
Qy 1081 ACAAGTATATCATTCGAATAGTACAGTATCTTGTATCTCAGACACAGTTCATGAAT 1140  
Db |||||  
Qy 2441 CTCCTCAAGTGAATCTCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 2500  
Db |||||  
Qy 1141 CTCCTCAAGTGAATCTCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTT 1200  
Db |||||  
Qy 2501 TGTGTTTAAACAGAAACATTAATCTTTGAAATGGACAGATCTTTTCTATTGCTATCAGG 2560  
Db |||||  
Qy 1201 TGTGTTTAAACAGAAACATTAATCTTTGAAATGGACAGATCTTTTCTATTGCTATCAGG 1260  
Db |||||  
Qy 2561 CTGTTGATAGGTGATCTGAAATCAGAAATATCAACATTCACAGAGATCTTTGTTA 2620  
Db |||||  
Qy 1261 CTGTTGATAGGTGATCTGAAATCAGAAATATCAACATTCACAGAGATCTTTGTTA 1320  
Db |||||  
Qy 2621 TTCTCCACAGACTCCGCGAGAGACCTAGTCTGATGAACGCTCTCTCTCTCTCTA 2680  
Db |||||  
Qy 1321 TTCTCCACAGACTCCGCGAGAGACCTAGTCTGATGAACGCTCTCTCTCTCTCTA 1380  
Db |||||  
Qy 2681 ATATTCAATATCAAGACCAATCTCTGGCAATTCACATTTTAAATAATATGGAAGTGA 2740  
Db |||||  
Qy 1381 ATATTCAATATCAAGACCAATCTCTGGCAATTCACATTTTAAATAATATGGAAGTGA 1440  
Db |||||  
Qy 2741 TAGGAGACTGAGCTGTCATAGCTAGGCTGATTTTGTGATGAATTAATAATAA 2800  
Db |||||  
Qy 1441 TAGGAGACTGAGCTGTCATAGCTAGGCTGATTTTGTGATGAATTAATAATAA 1500  
Db |||||  
Qy 2801 TCATTTCATCCTT 2812  
Db |||||  
Qy 1501 TCATTTCATCCTT 1512  
Db |||||

## RESULT 8

US-09-049-698-16

; Sequence 16, Application US/09049698

; Patent No. 6368792

## ; GENERAL INFORMATION:

; APPLICANT: BILLING-MEDEL, PATRICIA A.

; APPLICANT: COHEN, NAURICE

; APPLICANT: COLPITTS, TRACEY L.

; APPLICANT: FRIEDMAN, PAULA N.

; APPLICANT: HAYDEN, MARK

; APPLICANT: KLASS, MICHAEL R.

; APPLICANT: ROBERTS-RAPP, LISA

; APPLICANT: RUSSELL, JOHN C.

; APPLICANT: STROUPE, STEPHEN D.

; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE

; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL

; NUMBER OF SEQUENCES: 51

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Abbott Laboratories

STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,698  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/828,856  
FILING DATE: 31-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6068.US.P1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3043 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-09-049-698-16

Query Match 43.9%; Score 1308.6; DB 3; Length 3043;

Best Local Similarity 69.6%; Pred. No. 0;

Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;

Qy 21 AGCAATGGCCATTTAAGAGTTCTGTTCTCATCTTGTATCTTCACTTCTAGAGGGGC 80  
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Qy 10 AACATGGGTTATTCAGAGGTTTTTTTTCTCTTAGTCTGTGCTGTGCACAGTC 69  
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Qy 81 COTGAGTAATTCATCTATTTCAGCTGAACAACAATGGCTATGAAGCATTTGTTGCAAT 140  
Db |||||  
Qy 70 ---AAATCTCTCTTCATTAACTGATAATAATGGCTTGAAGATAATGTCATTGTTAT 126  
Db |||||  
Qy 141 CGACCCCAATGTCCAGAGATGAACAACACTCATTCACAATAAAGGACATGTCACCA 200  
Db |||||  
Qy 127 AGATCTAGTGTGCCAGAGATGAAAAAATAATTGAACAAATAGAGGATATGTTGACTAC 186  
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Qy 201 GGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTATTTTCAAAAAATGTTGCCAT 260  
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Qy 187 AGCTTCTAGTACCTGTTTGAAGCCACAGAAAAAGATTATTTTCAAAAAATGTTATCTAT 246  
Db |||||  
Qy 261 TTTGATTCCTGAACATGGAAGACAAAGGCTGACTATGTGACACCAAACTTTGAGACCTA 320  
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Qy 247 ATTAATTCCTGAGAAATGGAAGAAAAATCCTCAGTACAAAAGGCGCAAAACATGAAACCA 306  
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Qy 321 CAAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTATGATGACCTACAC 380  
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Qy 307 TAAACATGCTGATGTTATAGTTGACACCTACACTCCACAGGTAGAGATGAACCATACAC 366  
Db |||||  
Qy 381 TGAGCAGATGGGCAACTGTGGAGAGAGGTTGAAGGATCCACCTCACTCTCTGATTTCAT 440  
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Qy 367 CAGCAGTTTCAGAAATGTGGAGAGAGGCGAATACATTCATCTACCCCTGACCTTCT 426  
Db |||||  
Qy 441 TGCAGAAAAAAGTTAGCTGAATATGACCAACAAGGTAGGGGCAATTTGTCATGAGTGGGC 500  
Db |||||  
Qy 427 ACTTGAATAAAAAAACAATAATGAATATGACCAACAGGCAAACTGTTTGTCCATGAGTGGGC 486  
Db |||||  
Qy 501 TCATCTAGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCCAA 560  
Db |||||  
Qy 487 TCACCTCGGTGGGAGTGTGTTGATGAGTACAAATGAAGATCAGCCTTTCTACCGTCTAA 546  
Db |||||

QY 561 ---TGGAGAAATACAGCAGTAAAGTGTTCAGCAGGTATTACTGGTACAAATGTAGTAA 617  
 Db 547 GTCAAAAATAATCGAAGCAACAGGTGTTCAGCAGGTATCTCTGGTAGAAATAGAGTTTA 606  
 QY 618 GAAAGTGTAGGAGGAGCAGTGTATACACAAAGATGACATTCATTAAGTAAACAGGACT 677  
 Db 607 TAAAGTGTCAAGGAGGAGCAGTGTCTTAGTAGAGCATGACAGAAATGATTTCTACAAACAAACT 666  
 QY 678 CTATGAAAAGGATGTAGTGTGTCTCCAAATCCCGCAGACGGAGAGGCTTCTATAT 737  
 Db 667 GTATGAAAAGATGTCAATCTCTTCCTGATAAAGTACAAACAGAAAAGCATCATAT 726  
 QY 738 GTTTCACAAATGTGATTTCTATAGTTGAAATCTGTACAGAAACAAACCAACAAAGA 797  
 Db 727 GTTATGCAAAAGTATGATTTCTGTGTTGAAATTTTGTAAAGAAAACCCATAATCAAGA 786  
 QY 798 AGCTCAAAACAGCAAAATCAAAATGCAATCTCCGAAGCAGATGGGAAGTATCCGTGA 857  
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 QY 858 TTCTGAGGACTTTTAAAGAAAACCACTCCTATGACACACAGCCACCAAAATCCACCTTCTC 917  
 Db 847 TTCTGAGGATTTTAAACACCATACCCATGGTGACACACCTCTCCACCTGTCTTCTC 906  
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 Db 907 ATTGCTGAAGATCAGTCAAAAGAAATTTGTGTGTTTGTCTTGAATAGTCTGGAAGCATGGG 966  
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 Db 967 GGGTAAAGACCGCTTAAATCGAATGAATCAAGCAGCAAAAACATTTCTGCTGCAGACTGT 1026  
 QY 1038 TGAGCTGGGCTCTCGGTTGGGATGGTGACATTTGACAGTGTGCGCCATGTACAAAGTGA 1097  
 Db 1027 TGAAATGGAATCTCGGTTGGGATGGTTCACTTTGATAGTACTGCCCATTTGTTAAATAA 1086  
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 Db 1087 GCTAATCCAAATMAAAGCAGTGATGAAGAAACACACTATGCGCAGGATTAACCTACATA 1146  
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 Db 1147 TCCTCTGGGAGGAACTCCATCTGCTGTGGAATTAATGATGATTCAGGTGATTGGAGA 1206  
 QY 1218 GAAATAT---CCAACTGATGATCTGAATTTGTGCTGCTGACGATGGGAGACACAC 1274  
 Db 1207 GCTACATTTCCAACTCGATGATCGAAGTACTGCTGCTGACTGATGGGAGGATTAACAC 1266  
 QY 1275 TATAAGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGGTGCCCATCATCCACACAGTCGCTTT 1334  
 Db 1267 TGCAAGTCTTTGTTATGATGAAGTGAACAAAGTGGGCCATTTGTCATTTTATGTCTTT 1326  
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 Db 1447 AGGAAATACTGATCTCTCCAGAGTCCCTTCAGCTCGAAGTAAAGGATTAACACTGAA 1506  
 QY 1515 GAAACGCCAGTGGATGAATGCGACAGTATCGTGACAGCACCGTGGGAAAGGACATTTT 1574  
 Db 1507 TAGTAATGCCCTGGATGAACGACACTGTCTAATTTGATAGTACAGTGGGAAAGGACAGCTT 1566  
 QY 1575 GTTTCCTTATCACTGGGACACGAGCGCTCCCAATCTCTCTGGATCCCACTGACA 1634  
 Db 1567 CTTTCTCATCATAGGAACAGTCTGCGCTCCAGTATTTCTCTCTGGGATCCCACTGGAAC 1626  
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Db 1627 AATAATGGAATTTTCAGTGGATGCAACTTCCAAAATGGCTATCTCAGTATTCAGG 1686  
 QY 1695 CATTCCTAAGGTGGCAGCTTGGAAATACAGTCTGC-----AAGCAAGCTCAAAACCTT 1748  
 Db 1687 AACTCAAAAGGTGGCAGCTTGGCATACAACTTCAAGCCAAAGCAACCCAGAACAT 1746  
 QY 1749 GACCCGTGACTGTCAGTCCGCTGCTCCAAATGCTACCTGCTCCAAATTCAGTGAATTC 1808  
 Db 1747 AACTATTAACAGTAATCTTCGAGCAGCAAAATCTTCTGTGCTCCAAATCACAGTGAATGC 1806  
 QY 1809 CAAAACGAACAGGACACACAGCAAAATCCCGAGCCCTCTGGTAGTATTCGAAATATTCG 1868  
 Db 1807 TAAATGAATAAAGACGTAAACAGTTTCCCGAGCCCAATGATTTGTAGCAGAAATTTCT 1866  
 QY 1869 CAAAGGACCTCCCAATTTCTCAGGCGCAGTGTTCACAGCCCTGATTGAATCAGTGAATGG 1928  
 Db 1867 ACAGGATATGATCTGTTCTTGGAGCCAAATGTGACTGCTTTCATTTGAATCACAGATGG 1926  
 QY 1929 AAAACAGTTACCTTGGAACTACTGGATTAATGGAGCAGGTGCTGATCTACTTAAGATGA 1988  
 Db 1927 ACATACAGAAAGTTTGGAACTTTTGGATAATGGTGCAGGCGCTGATTTCTTCAAGATGA 1986  
 QY 1989 CGGTCTTACTCAAGGTATTTTCAAACTTTATGACACGAATGATGATGATGATGATGATGATG 2048  
 Db 1987 TGGAGTCTACTCCAGTATTTTACGATATACGAAATGGCAGATATAGCTTAAAGT 2046  
 QY 2049 GCGGCTCTGGAGAGTTAAACGAGCAGCAGGAGTGTATACCCAGCAGAGTGGAGC 2108  
 Db 2047 TCGGCTCATGGAGAGCAACACTGCCAGGCTAAATTTACGGCTTCCACTGATAGAGC 2106  
 QY 2109 ACTGTACATACCTGGTGGATTTGAGATGATGAATCAATGGAATTCACCAAGACCTGA 2168  
 Db 2107 CGCGTACATACCGGCTGGGTAGTGAACGCGGGAATTTGAAGCAAAACCCGCCAAGACCTGA 2166  
 QY 2169 AATTAATGAAGTATGTTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCTCGGAGG 2228  
 Db 2167 AATTTGAT---GAGATACTCAGACCACTTGGAGATTTTTCAGCAGAACAGATCCGGAGG 2223  
 QY 2229 CTCATTTGTGCTTCTGATGCTCCAAATGCTCCCATACCTGATCTTCTCCACCTGGCCA 2288  
 Db 2224 TGCAATTTGTGTTATCAAGTCCCAAGCTTCCCTTGCCTGACCAATACCCACCAAGTCA 2283  
 QY 2289 AATCACCGACCTGAAGCGGGAATTCAGCGGCGAGTCTCAATTAATCTGACTTGGACAGC 2348  
 Db 2284 AATCACAGACCTTGAATGCCACAGTTTCATGAG---ATAAGATTTATTTTACATGGACAGC 2340  
 QY 2349 TCCTGGGATGATTATGACCATGGAACAGCTCACAAGTATATCATTCGAATAAGTACAAG 2408  
 Db 2341 ACCAGGAGATTAATTTTGAATTTGGAAGATTTCAACGTTTATATATAAGAAATAGTCAAG 2400  
 QY 2409 TATTTCTGATCTCAGACAGAAAGTTCAATGATCTTTCAGTGAATACTACTGCTCTCAT 2468  
 Db 2401 TATTTCTGATCTAAGAGACAGTTTGTGATGATGCTTTCAGTAAATACTACTGATCTGTC 2460  
 QY 2469 CCAAAAGGAGCAGCTCTGAGGAGTCTTTTGTGTTTAAACCAAGAAACATTTCTTTGA 2528  
 Db 2461 ACCAAAGGAGCAGCTTCAAGGAAAGCTTTGCACTTTTAAACCAAGAAATATCTCAGAAGA 2520  
 QY 2529 AATTTGGCAGACAGTCTTTTTCATTTGCTATTCAGGCTGTTGATAAGGCTCTGAATCAGA 2588  
 Db 2521 AATTTGCAACCAATTTTATTTGCTATTTAAAGTATAGATAAGAAAGCAATTTGACATCAA 2580  
 QY 2589 AATATCAACATTTGACAGAGTATCTTTGTTTATTTCTTCCACAGACTCCGCGCAGACAC 2648  
 Db 2581 AGTATCCAACTTTGACAGAGTAACTTTGTTTATTTCTTCAAGCAATCTCTGATGACATGA 2640  
 QY 2649 TAGTCTGATGAACAGTCTGCTCTGCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT 2689  
 Db 2641 TCCTACTCTCTACTCTCTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2681

US-09-049-698-18  
; Sequence 18, Application US/09049698  
; Patent No. 6368792  
; GENERAL INFORMATION:  
; APPLICANT: BILLING-MEDEL, PATRICIA A.  
; APPLICANT: COHEN, MAURICE  
; APPLICANT: COLPITTS, TRACEY L.  
; APPLICANT: FRIEDMAN, PAULA N.  
; APPLICANT: HAYDEN, MARK  
; APPLICANT: ROBERTS-RAPP, LISA  
; APPLICANT: KLAAS, MICHAEL R.  
; APPLICANT: RUSSELL, JOHN C.  
; APPLICANT: STROUPE, STEPHEN D.  
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
; TITLE OF INVENTION: TRACT  
; NUMBER OF SEQUENCES: 51  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Abbott Laboratories  
; STREET: 100 Abbott Park Road  
; CITY: Abbott Park  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/049,698  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,856  
; FILING DATE: 31-MAR-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Becker, Cheryl L.  
; REGISTRATION NUMBER: 35,441  
; REFERENCE/DOCKET NUMBER: 6068.US.PI  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 847/935-1729  
; TELEFAX: 847/938-2623  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 18:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3181 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-09-049-698-18  
Query Match 43.9%; Score 1308.6; DB 3; Length 3181;  
Best Local Similarity 69.6%; Pred. No. 0;  
Matches 1866; Conservative 0; Mismatches 794; Indels 21; Gaps 6;  
QY 21 ACNATGGGCGCATTAAGAGTCTGTGTCTCATCTGTATCTTCACCTCTAGAGGGGC 80  
DB 21 AACAAATGGGGTATTACAGAGGTTTTTTTCTCTTAGTCTGTGCGCTGCACAGTC 80  
QY 81 CCGTAGTAATTCACCTATTACAGCTGAACAACTAGGCTATGAAGGCATTGTCTGCAAT 140  
DB 81 ---AAATCTCTCTTCAATTAAGCTGATTAATTAATGCTTTGAAGATATTGTCTGTTAT 137  
QY 141 CGACCCCAATGCGCAGAGATGAACACTCATTCATTAACAAATTAAGGACATGGTACCCA 200  
DB 138 AGATCCTAGTGTGCCAAGATGAACAAATTAATGAACAAATAGAGGATATGGTGACTAC 197  
QY 201 GGCATCTGTATCTCTTTGAAGCTACAGGAAAGCATTTTATTTCAAAAATGTTGCCAT 260  
DB 198 AGCTTCTAGTACCTGTTTGAAGCCACAGAAAGATTTTTTTTCAAAAATGATCTAT 257  
QY 261 TTTGATTCCTGAACATGAAGACAAAGGCTGATGTGAGACCAAACTTGAGACCTA 320

DB 258 ATTAATTCCTGAGAAATGGAAGGAAATCCCTCAGTACAAAAGGCGCAAAACATGAAACCA 317  
QY 321 CAAAAATGCTGATGTTCTGGTGTCTGAGTCTACTCTCCAGGTATGATGATGACCTACAC 380  
DB 318 TAAACATGCTGATGTTATAGTTGACACCCTACACTCCCGGTAGAGATGAACCAATACAC 377  
QY 381 TGACGAGATGGCAACTGTGAGAGAGAGGTGAAGGATCCACCTCACTCTCTGATTTCAT 440  
DB 378 CAAGCAGTTACAGAAATGTGGAGAGAGGGAATACATTCATTCACCCCTGACCTTCT 437  
QY 441 TGCAGGAAAAAGTTAGCTGAATATGGACCAAGGTAGGGCATTTGTCATGATGGGC 500  
DB 438 ACTTGAAAAAACAACAAATGAATATGGACCAAGGTAGGGCATTTGTCATGATGGGC 497  
QY 501 TCACTCAGATGGGAGTATTTGACGAGTCAATTAATGATGAGAAATTTCTACTTATCCAA 560  
DB 498 TCACCTCGGTGGGAGGTGTTGATGAGTCAATGAAGATCAGCCTTTCTACCGGTCAA 557  
QY 561 --TGGAAAGATACAAGCAGTAAGATGTTACGAGGTATTACTGTGACAAATGTAGTAAA 617  
DB 558 GTCAAAAAAATCGNAGCAAAGGTGTTCCGAGGTATCTCTGTAAGATAGATTTA 617  
QY 618 GAAGTGTCAAGGAGCGAGCTGTTACACAAAGATGCAATTCATATAAGTAACAGGACT 677  
DB 618 TAAGTGTCAAGGAGCGAGCTGTTACACAAAGATGCAATTCATATAAGTAACAGGACT 677  
QY 678 CTATGAAAAAGATGAGTGTGTTCTCCATCCCGCAGAGGAGGCTTCTATAT 737  
DB 678 GTATGAAAAAGATGTCATTTCTTGTGATAAGTACAAACAGAAAAAGCATTCATAT 737  
QY 738 GTTTCGACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACCAACAAAGA 797  
DB 738 GTTATGCAAGATTTGATTTCTGTTGTAATTTGTAAAGGAAACCAACATTAACA 797  
QY 798 AGCTCCAAACAGCAAAATCAAAATGCAATCTCGAAGCAGCATGGGAAGTATCGTGA 857  
DB 798 AGCTCCAAAGCCTACAAAACATAAAGTGCAATTTTGAAGATACATGGAGGTGATTAGCAA 857  
QY 858 TTCTGAGGATTTTAAAAACACCATCCATGTTGACACACCTCTCCACCTGTCTTCTC 917  
DB 858 TTCTGAGGATTTTAAAAACACCATCCATGTTGACACACCTCTCCACCTGTCTTCTC 917  
QY 918 ATTGCTGAGATTGGACAAAGAAATGTTGTTTGTCTTGTGACAAATCTGGAAGCATGC 977  
DB 918 ATTGCTGAGATCACTCAAGAAATTTGTGCTTAGTTCTTGATAGTCTGGAAGCATGG 977  
QY 978 GACTGGTAAACCGCTCAATTCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGACAGACT 1037  
DB 978 GGGTAAGGACCGCTTAATCGAATGAATCAAGCAGCAAAACATTTCTCTGCTGAGACTGT 1037  
QY 1038 TGAGCTGGGTCTCTGGGTGGGATGGTGCATTTGACATTTGACAGTGTGCTCCATGTACAAGTGA 1097  
DB 1038 TGAAAAATGGATCTCTGGGTGGGATGGTGCATTTGATAGTACTGCCACTATTGTAATAA 1097  
QY 1098 ACTCATACAGATAAAACAGTGGCAGTGACAGGAGACACATCGGCAAAAGATTACCTGCAGC 1157  
DB 1098 GCTAATCCAAATTAAGAGCAGTGATGAAGAAACACATCATGCGGAGGATTACCTACATA 1157  
QY 1158 AGCTTCAGAGGAGCGTCCATCTGAGCGGGCTTCGATCGGCAATTTACTGTGATTAGGAA 1217  
DB 1158 TCCTCTGGGAGGAACTTCCATCTGCTGGAATTAATATGCAATTTGAGGTGATTGGAGA 1217  
QY 1218 GAAATAT---CCAACCTGATGATCTGAAATTTGCTGCTGCTGAGGATGGGAAAGACAACAC 1274  
DB 1218 GCTCATTTCCCACTCGATGGATCGAGTACTGCTGCTGATCTGATGGGAGGATTAACAC 1277  
QY 1275 TATAAGTGGGTCTTTAAACGAGGTCAACAAAGTGTGGTCCATCATCCACAGCTGCTTT 1334  
DB 1278 TCGAAGTTCTTCTGTTATGATGAAGTGAACAAAGTGGGGCCATTGTTCAITTTATTGCTTT 1337  
QY 1335 GGGGCCCTCTGACGCTCAAGAACTAGAGGAGTGTCCAAATCAGAGGAGGTTTACAGAC 1394

Db	1338	GGGAAGACGCTGCTGATGTAAGCAGTAATAGAGATGAGCAGGAAGATAACAGGAGGAAGTCATTT	1397
Qy	1395	ATATGCTTTAGATCAAGTTTCAGAACAATGGCCTCATTCATGATGCTTTTGGGGCCCTTTCATC	1454
Db	1398	TTATGTTTTAGATGAAGCTCAGAAATGGCCTCATTCATGATGCTTTGGGCTCTTTACATC	1457
Qy	1455	AGGAATGGAGTGTCTCTCAGCGCTCCATCCAGGTTTGAGAGTTAAGGATTAACCCCTCCA	1514
Db	1458	AGGAATACTGATCTCTCCAGAAAGTCCCTTCAGCTCGAAATGAAGGATTAACACTGAA	1517
Qy	1515	GAACAGCCAGTGGATGAATGCAAGTCATCGTCGACAGCACCGCTGGGAAGAAGACATTT	1574
Db	1518	TAGTAATGCGTGGATGAACGACACTGCTAATTAATTGATAGTACAGTGGGAAGAAGACAGTT	1577
Qy	1575	GTTTCTTATCATCCTTGGACAACGCGACGCTCCCAAAATCCTTCTCTGGGATCCCACTGGACA	1634
Db	1578	CTTTCTCATCATAGGAACAGTCTGCGCTCCCAAGTATTTCTCTCTGGGATCCCACTGGAAC	1637
Qy	1635	GAAGCAAGTGGCTTTGTAGTGGHCAAAAACACAAAATGGCCTTACCTCCAAATPCCAGG	1694
Db	1638	AATAATGGAATAATTTCACAGTGGATGCAACTTCCAAAATGGCCTATCTCAGTATTTCCAGG	1697
Qy	1695	CATTGCTAAGGTTGGCACTTCGAAATACAGTCTGC-----AAGCAAGCTCCAAACCTT	1748
Db	1698	AACTGCAAAAGTGGCACTTGGGCATACAACTTCGAAGCCAAAGGAAACCCAGAAACATT	1757
Qy	1749	GACCTGACTGTCACTGCCGTCCGTCCAAATGCTACGCTGCTCCAAATTACAGTGACTTC	1808
Db	1758	AACTATTACAGTAACCTTCTCGAGCAGCAAAATCTTCTGTGCTCCAATCACAGTGAATGC	1817
Qy	1809	CAAAACGAAACAGGACACAGCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTCG	1868
Db	1818	TAAATGAATAAGACGCTTAAACAGTTTCCCGACGCCCAATGANTGTTTACGAGAAATCTT	1877
Qy	1869	CCAAGGAGCCTCCCAATTTCTCAGGCGCAGTGTCACAGCCCTGATTGAATCAGTGAATGG	1928
Db	1878	ACAAGGATATGTACTCTGTTGAGGCCAATGTGACTGCTTTCAATTGAATTCACAGAAATGG	1937
Qy	1929	AAAAACAGTTTACCTTGGAACTACTGGATAATGGAGCAGGTGCTGATGCTACTAAGGATGA	1988
Db	1938	ACATACAGAAGTTTGGAACTTTTGGATATGTTGGAGCGCTGATCTTTCAAGAAATGA	1997
Qy	1989	CGGTGCTACTCAAGGTATTTTCAACTTATGACAAGATGGTAGATACAGTGTAAAAAGT	2048
Db	1998	TGGAGTCTACTCCAGGTATTTTACAGCATATACAGAAAATGGCAGATATAGCTTAAAAAGT	2057
Qy	2049	CGGGCTCTCGGAGGAGCTTAAACGAGCCACGAGAGTGATACCCAGCAGCAGTGGAGC	2108
Db	2058	TCGGGCTCATGGAGGACAAACATGCCAGCTTAAATTAAGCGCTCCACTGAATAGAGC	2117
Qy	2109	ACTGTACATACCTGGCTGGATTGAGAAATGATGAATACAAATGGAATCCCAAGACCTGA	2168
Db	2118	CGCGTACATACCAAGCTGGGTAGTGAACGGGAAATTGAACAAAACCGCCACAGACTGA	2177
Qy	2169	AATTATAAGGATGATGTTCAACACAGCAAGTGTGTTTACAGCAGAAATCTCTCGGAGG	2228
Db	2178	AATTGAT---GAGGATACTCAGACCACTTTGGAGGATTTCAGCCGAACAGCATCCGGAGG	2234
Qy	2229	CTCATTTGTGCTTCTGATGCTCCCAATGCTCCCATACCTGATCTCTTCCACCTGGCCA	2288
Db	2235	TGCATTTGTGATATCAAGTCCCAAGCCTTCCCTTGCCTGACCAATACCCCAAGTCA	2294
Qy	2289	AATCACCGACTGAAAGCGGAAATTCAGGGGGCAGTCTCATTAATCTGACTTTGGACAGC	2348
Db	2295	AATCACAGACCTTTGATGCCACAGTTCATGAGG---ATAAGATTATTTTACATGGACAGC	2351
Qy	2349	TCCTGGGATGATATGACCATGGAACAGCTCAAGTATATCATTTCGAATAAGTACAAG	2408
Db	2352	ACCAGGAGATAAATTTTGATTTGGAAAGTTCAACGTTATATATAAGAATAAGTCAAG	2411
Qy	2409	TATTTCTGATCTCAGACAGCAAGTTCAATGAATCTTCTCAAGTGAATPACTACTGCTCTCAT	2468
Db	2412	TATTTCTGATCTAAGAGACAGTTTTCATGATGCTTCTCAAGTAAATPACTACTGATCTGTC	2471

	CCAAAGAACCAACTCTGGGAAGTCTTTTGTTTTAAACCGAAAAACAATTACTTTTGA	2528	
QY	2469		
Dd	2472	ACCAAAGGAGGCCAATCTCAGGAAAAGCTTTGCATTTTAAACCAGAAAATAATCTCAGAAGA	2531
QY	2529	AAATGGCACACAGATCTTTTCATTTGTCTATTTCAGGCTGTTTGATAAGGTCGATCTGAAATCAGA	2588
Dd	2532	AAATGCAACCCCACATATTATTATGCGATTAAAGTAGATAAAAGCAAAITTTGCATCAA	2591
QY	2589	AATATCCAACCATTTGCACGAGTAATCTTTGTTTATTTCCTCCACAGACTCCGCCAGAGACACC	2648
Dd	2592	AGTATCCAACATTCGACAAGTAATCTTTGTTTATCCCTCAAGCAAAATCTCGATGACATTGA	2651
QY	2649	TAGTCCTGATGAACAGTCTCTCTCTGTTCTCTTAATATTCATA	2689
Dd	2652	TCCTACTCTCTACTCTCTACTCTCTGATATAAAAGTCATA	2692

RESULT 10  
US-09-193-562D-1  
; Sequence 1, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 1  
; LENGTH: 3317  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated  
; protein from bovine endothelial cells  
US-09-193-562D-1

Query Match	30.2%	Score	900.2	DB	3	Length	3317
Best Local Similarity	61.4%	Pred.	No.	3e-267			
Matches	1635	Conservative	0	Mismatches	978	Indels	48
Qy	5	TCACGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTTCATCTTGATCTTC	64				
Db	43	TTACTGTACAATGTGCAAAAATGGTGCTCTGTCTGAATGTTATCTGTTTCTTAACCTTTGC	102				
Qy	65	ACCTTCTAGAGGGGCCCTGAGTAAATTCATCTCATTGAGCTGAACACCAATGGCTATGAAG	124				
Db	103	ATCTCTTGCTGG--AATGAAAGTTCAATGGTAAATTTGATTAACAATGGTATGATG	159				
Qy	125	GCATTGTGCTGCAATCGACGCCCAATGTGCCAGAGATGAACACTCATTCAACAATAA	184				
Db	160	GCATTGTCAATGCATTAACCCAGTGTGCCAGAGATGAAAACCTCAATTGAAAACATAA	219				
Qy	185	AGGACATGTGTGACCCAGGCGATCTCTGTATCTCTTTGAAGCTACAGGAAGCGATTTTAT	244				
Db	220	AGGAATGGTAACTGAAGCTTCTACTACCTGTTTCATGCCACCAACGAGAGTTTAT	279				
Qy	245	TCAAAATGTTGCCATTTTGATCTCTGAAACATGGAAGACAAAGCGTGACTATGTGAGAC	304				
Db	280	TCAGGAATGTGAGCATTTTAAATTCCAATGACCTGGAAATCAAAATCTGAGTACTTCATAC	339				
Qy	305	CAAACTTGGAGACCTACAAAAATGCTGATGTCTGGTTGCTGAGTCTACTCTCCAGGTA	364				
Db	340	CAAAACAAGAAATCAATATGACCGGCGAGATGTCATAGTTGCTAATCCCTATCTAAAATATG	399				
Qy	365	ATGATGAACCTTACTAGCGAGATGGGCACTGTGGAGAGAGGGTGAAGGATCCACC	424				
Db	400	GAGATGATCCCTTACATCTCAATATGAAGGTGTGGAGAAAAAGAAAAATATATACATT	459				



QY 425 TCATCTCTGATTTTCATTCAGGAAAAAGTTAGCTGATATATGAGCAACAGGTAGGCAT 484  
Db 460 TTACTCCAAACTTCTTGTGTGACTAATAATTTCCACATCTATGGTCCGAGCAGAGTAT 519  
QY 485 TTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGATGAGA 544  
Db 520 TTGTCATGAGTGGGCTCATCTCCGCTGGGAATATTTGATGAGTATTAATGTTGGACAGC 579  
QY 545 AATCTACTTATCC---AATGGAAGATACAGCAGTGAAGTGTTCAGCAGGTATTAATG 601  
Db 580 CATCTATATTTCCAGAAAGAACACTATTTGAAGCAACAAGATGTTTCAACTCATATTAATG 639  
QY 602 GTACAAATGTAG---TAAAGAGTCTCAGGAGGAGCTGTGTACACCAAAAGATCCACAT 658  
Db 640 GTATTAATGTGTTTTCAGAAATATCCCTGGAGGAGCTGTATTAACAAGTCTATCGAGAC 699  
QY 659 TCAATAAAGTAAACAGGACTCTATGAAAAAGAGTGTGAGTGTTCCTCAATCCGCCAGCA 718  
Db 700 GTGACTCACAGACAGGCTGTATGAAGCAAAATGTACATTCCTTCCAAAAAATCCAGCA 759  
QY 719 CGGAGAAGCTTCTATATATGTTTGGACAACATGTTGATTTCTATAGTTGATTTCTGTACAG 778  
Db 760 CTGCAAGGAATCCATTTATGTTTATGCTCAAGTCTCCATTTCTGTGACTGAAATTTGTACAG 819  
QY 779 AACAAACACAAACAAAGAGCTCCAAACAGCAAAATCCAAAAATGCAATCTCCGAGCA 838  
Db 820 AAAAACAACAAATACAGAGCTCCAAACCTTCAAAACAAATGTGCAATGTGCAAAAGCA 879  
QY 839 CATGGGAAGTATCCGCTGATTTCTGAGGACTTTTAAAGAAACCACTCCTATGACA-----A 892  
Db 880 CATGGAGTATATCATGAACTCTGTTGACTTTTCAAGATATACATCTCCCATGACAGAAATGA 939  
QY 893 CACAGCCACAAATCCGACCTTCTCATTTGCTCGAGATTTGGACAAGAAATGTTGTTTAC 952  
Db 940 ATCCACCGACTCATCTACATTTTTCATTTGCTCAAGTCCAAACAGCGGGTGTCTGTTGG 999  
QY 953 TCCTTTGACAAATCTGAGACATGGGACCTGATGTAACCGGCTCAATCGACTGAATCAAGCAG 1012  
Db 1000 TACTTGTATAAATCTGGAAGCATGCTGACAGAACCGCTCTCTTTTCAATGAATCAAGCAG 1059  
QY 1013 GCCAGCTTTCTGCTGACAGACATTTGAGCTGGGCTCTGGGTGGGATGGTGTGACATTTG 1072  
Db 1060 CAGAACTATATCTGATTTCAAGTTATTTGAAAAGGGATCTTTAGTTGGATGGTTACATTTG 1119  
QY 1073 ACAGTGTGCCATGTACAAAGTGAATCATACAGATTAACAGTGGCAGTGCAGGAGCA 1132  
Db 1120 ACAGTGTGCTGAAATCCAAATCATCTTAAACAGATTAACCTGATGATTAATGTTTACCAA 1179  
QY 1133 CACTGCCAAAGATTTACCTGACAGACATTTGAGGAGGAGCTCATCTGACGGGCTTC 1192  
Db 1180 AGATCACCCAAACATGCTGCTCAAGTACATTAAGTGGGAACTCAATTTGTAGAGGCTCA 1239  
QY 1193 GATCGGCAATTTACTGTGATTAGGAAGA---AATATCCAACTGATGATCGTGAATTTGTC 1249  
Db 1240 AAGCAGATTTCCAGGCAATTTATCCACAGTGACACAGTACTTCTGTTCTGAAATCATATC 1299  
QY 1250 TGCTGACGATGGGGAAGACAACATTAAGTGGGTGCTTTAAGAGGTCAACAAGT 1309  
Db 1300 TATTAATCTGATGGGAAGATATGAAATAAATTCATGCTTTGAGGATGTAACACGAAGTG 1359  
QY 1310 GTGCCATCATCACAGTGGCTTTGCGGCCCTCTCGAGTCAAGAACTAGAGGAGCTGT 1369  
Db 1360 GTGCAATCATCACACATTTGCTCTGGGACCTCTGCTGCCAAAGAACTGGAGACATTTGT 1419  
QY 1370 CCAAAATGACAGGAGTTTACAGACATATGCTTTGAGTCAAGTTCAGAAATGCGCTCA 1429  
Db 1420 CAAATATGACAGGAGTATGCTTTTGTGCAATTAAGACATA-----ACTGGGCTTA 1473  
QY 1430 TTGATGCTTTTGGGCGCTTTTATCAGGAATGAGAGTGTCTCTGAGCGCTCCATCCAGC 1489  
Db 1474 CTAATGCTTTTCAAGTAAATTTTCACTAGAAAGTGGAGCATCACTCAAGAGGCTTATCAGT 1533  
QY 1490 TTGAGAGTAGGAGTAAACCTCCAGAAACAGCCAGTGGATGAATGGCACAGTGTGCTGG 1549

Db 1534 TGGAAAGCAAGCCTTTGAAAATTTACAGGAAGAAAAGAGTAAACGGCACAGTGCCTGTAG 1593  
QY 1550 ACAGCACGCTGGGAAAGAGACACTTTTGTATCTATCCTCGACACAGCAGCTCCCAAA 1609  
Db 1594 ACAGTACAGTTGGAAATGACACTTTTGTGTCACATGAGCAATACAAAAACAGAAA 1653  
QY 1610 TCCCTTCTGCGATCCCAAGTGGACAGAGCA-----AGGTGGCTTTGTAGTGGACA 1660  
Db 1654 TTGTTCTCCAAGATCCAAAGGAAGAAATATAAACTCGATTTCAAGAGATAGT 1713  
QY 1661 AAAACACCAAAATGGCCTTACCTCCAAATCCAGGCAATTTGTAAGTTGGACTTGGAAAT 1720  
Db 1714 TAAATATTCGATGCTGCTGCTGCAATACCTGTTGTAATGACAGACAGTACTTGGACTT 1773  
QY 1721 ACAGTCT-----GCAAGCAAGCTCAAAACCTTGACCTGACTCTCAGTCCCGTG 1771  
Db 1774 ACAGCTTTCTAAATAATCATCGAGCTCTCAATGCTAAACAGTGAAGTGAAGTCCAG 1833  
QY 1772 CGTCAATGCTACCTGCTCCAAATTAAGTGAATTTCCAAACCAAGAACACAGCA 1831  
Db 1834 CAAGAGTCTCTACTATACCCCAAGTAAATGCAACAGCTCACATGATCAACATACAGCA 1893  
QY 1832 AATTCGCCAGCCTCTGATGTTATGCAATATTTGCGCAAGGAGCCTCCCAATTTCTCA 1891  
Db 1894 ATTATCTAGCCCAATGATTTGTTATGCAAGTCAAGTCAAGGGTTTTCGCTGTACTGG 1953  
QY 1892 GGGCCAGTGTACAGCCTGATTTGAATCAGTGAATGGAAGAAACAGTACTTTGGAAGTAC 1951  
Db 1954 GAATCAGTGTAAATAGCCATTAAGAAACCGAAGATGGACATCAAGTAAACATTTGGAGTCT 2013  
QY 1952 TCGATAATGGAGCAGTGTGATGCTACTTAAGGATGAGGCTGTCTACTCAAGTATTTCA 2011  
Db 2014 GGGCAATGTTGACAGTGTGATGCTGTAAGTCAAGAAATGATGGCATCTACTCAAGTACTTTA 2073  
QY 2012 CAACTTATGACAGTATGATACAGTGTAAAAGTGGGCTCTGGGAGGAGTTAAG 2071  
Db 2074 CAGATTACTATGGAATGGTATACAGTTTAAAAGTACATGCACAGGCAAGAAACAA 2133  
QY 2072 CAGCAGAGGAGAGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGCTGGATG 2131  
Db 2134 CGGCTAGGCTAAATTTAAGACAAACACAGAAAGTTCTATGTTCCAGGCTACGTTG 2193  
QY 2132 AGAATGATGAAATACAAATGGAATCCAAAGACCTGAAATTAATAGGATGATTTCAAC 2191  
Db 2194 AAAACGGTAAATATATCTGAACCCACCCAGACCTGGAATCAAGATGACCTGGCAAG 2253  
QY 2192 ACAAGCAAGTGTGTTTCAGCAGAAACATCTCGGAGGCTCATTTGTTGGCTTCTGATGTC 2251  
Db 2254 CTAAATAGAGACTTTAGCAGACTAAACCTCTGGAGGGTCAITTTACTGTATCAGGAGCTC 2313  
QY 2252 CAAATGCTCCCA---TACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGCGCG 2308  
Db 2314 CTCCTCTGGTAAATCACCTCTGTTGTTCCCAAGTAAATTAAGATCTTTGAGGCTA 2373  
QY 2309 AAATTCACGGGCGAGTCTCAITTAATCTGACTGTGACAGCTCTCTGGGGATGATTAAGC 2368  
Db 2374 AGTTCAAGAG---ATTATATTTCACTTTTCAAGCAGCCCTGCAATGTCCTAGATA 2430  
QY 2369 ATGGAACAGCTCACAGTATATCATTCGAATTAAGTAAAGTATTTGATCTCAGAGACA 2428  
Db 2431 AAGGAAAGCCAAACAGCTACATTAAGAAATAAGTAAGAGTTTCATGGATCGTCAAGAG 2490  
QY 2429 AGTTCAATGAATCTCTTCAAGTGAATACCTGCTCTCATCCAAAGGAAGCAACTCTG 2488  
Db 2491 ATTTTGCAATCGCACTTTAGTGAATCTTAACTTAATCTAATCTTAAGGAGCGCGATCAA 2550  
QY 2489 AGGAGTCTTTTGTGTTAAACCAAGAAACATTTACTTTTGAATGCGACAGATCTTTTCA 2548  
Db 2551 AAGAAATTTGAAATTTAAGCCAGAACATTTTAGAGTAGAAATGACCAAAATCTTATA 2610  
QY 2549 TTGCTATTACGGCTGTGATAGGTGATCTGAATTCAGAAATCAAGAAATATCCACATTCAGGAG 2608

Db 2611 TTTCAGTCCAGCCATCAACGAAGCAATCTCATCTCAGAGGTTTCTCACAATTGTACAAG 2670  
QY 2609 TATCTTTGTTTATTCCTCCAC 2629  
Db 2671 CAATCAATTTATTCCTCTAC 2691

RESULT 11  
US-10-055-412B-1  
; Sequence 1, Application US/10055412B  
; Patent No. 692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 1  
; LENGTH: 3317  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: sequence encoding Lu-ECAM-1 and Lu-ECAM-1 associated protein from  
; OTHER INFORMATION: endothelial cells  
US-10-055-412B-1

Query Match 30.2%; Score 900.2; DB 4; Length 3317;  
Best Local Similarity 61.4%; Pred. No. 3e-267;  
Matches 1635; Conservative 0; Mismatches 978; Indels 48; Gaps 10;

QY 5 TCACAGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTGTGTTCATCTTGTATCTTC 64  
Db 43 TTACTGTAAATGTGCAAAAATGGTCTGTCTGTAATCTTATCTGTCTTAACTTTGC 102  
QY 65 ACCTTCTAGAGGGCCCTGAGTAATTCATCTTCAGTCAACCAATGCTATGAAG 124  
Db 103 ATCTCTTCCTCGG---AATGAAAGTTCAATGGTAAATTTGAATTAACAATGGGTATGATG 159  
QY 125 GCATTTGCTGTGCAATGCACCCCAATGTGCCAGAGATGAACCTCATTCACCAATAAA 184  
Db 160 GCATTTGCTGCAATTAACCCAGTGTGCCAGAGATGAANAATCTCATTTGAAACATAAA 219  
QY 185 AGGACATGGTGACCCAGGCATCTCTGTATCTCTTTTGAAGCTACAGGAAAGCGATTATT 244  
Db 220 AGGAAATGGTAACTGAAGCTTCTACTTACCTGTTTTCATGCCACCAACGAAGATTAT 279  
QY 245 TCAAAAATGTTGCCATTTTGTATCTGAAACATGGAAGACAAAGGCTGACTATGTGAGAC 304  
Db 280 TCAGAAATGTGAGCATTTTAAATTCGAATGACTGGAAATCAAAATCTGAGTACTTCTATC 339  
QY 305 CAAAACCTTGAGACCTTACAAAATGCTGTATGTTCTGTGTTGCTGAGTCTACTCTCCAGTA 364  
Db 340 CAAAACAAGATCATATACACAGGAGATGTCATAGTTGCTTAATCCCTATCTAAATATG 399  
QY 365 ATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGAGATCCACC 424  
Db 400 GAGATGATCCCTATACACTTCAATATGAAGGTGTGGAGAAAGGAAATATATACATT 459  
QY 425 TCACCTCTGATTTTCATTCAGGAAATAAGTTAGTGAATATGGACCAAGGTAGGGCAT 484  
Db 460 TTACTCCAAACTTCTTGTGTGATTAATTTCCATCTATATGGTCCCGAGGACAGAT 519  
QY 485 TTGTCCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACATATATGATGAGA 544  
Db 520 TTGTCCATGAGTGGGCCCATCTCCGCTGGGAAATATTTGATGATATATGATGGACCCAGC 579  
QY 545 AATTCTACTTATCC---AATGGAAGATACAAAGCAGTAAGATGTTTCAGCAGGTTATCTG 601

Db 580 CATTTCTATATTTCCAGAAAGAACACATTTGAAGCAACAAGATGTTCAACTCATATTAATCTG 639  
QY 602 GTACAAATGTAG---TAAAGAAAGTGTACGGAGGAGGAGCTGTTACACCAAAAAGATGCACAT 658  
Db 640 GTATTAAATGTGTTTTCAGAAATGCCCTGGAGGAGCTGTATAACAAGTCTATGAGAC 699  
QY 659 TCAATAAAGTAAACAGACCTCTATGAAAAAGAGATGTGAGTTTGTTCCTCAATCCCGCAGA 718  
Db 700 GTGACTTCACAGACAGGGCTGTATGAAGCAAAAATGTACATTCCTTCCAAAAAATCCAGA 759  
QY 719 CGGAGAAGGCTTCTATAATGTTTGCACACATGTTGATTTCTATAGTTGATTTCTGTACAG 778  
Db 760 CTGCAAAAGATCCATTTATGTTTATGCCAAGTCTCAATCTCTGTGATGAAATTTGTACAG 819  
QY 779 AACAAAAACCAACAAAGAGCTCCAAAACAGCAAAAATCAAAAATGCAATCTCCGAAAGCA 838  
Db 820 AAAAAACACACAATACAGAAAGCTCCAAACCTACAAAACAAAATGTGCAATGCAAAAGCA 879  
QY 839 CATGGAAGTGTATCGTGTGATTTCTGAGGACTTTTAAAGAAACCACTCTCTATGACA-----A 892  
Db 880 CATGGGATGTAAATCATGAACCTCTGTGTGACTTTTCAGATACATCTCCCATGACAGAAATGA 939  
QY 893 CACAGCCACCAATCCCACTTCTCATTTGCTGCAGATTGGACAAAAGATTTGTGTTAG 952  
Db 940 ATCCACCGACTCATCTCATTTTCATTTCTCAAGTCCAAAACAGCGGTAGTCTGTTGG 999  
QY 953 TCTTTGACAAATCTGGAAGCATGGGAGCTGTGTAACCGCTCAATCGACTGAATCAAGCAG 1012  
Db 1000 TACTTGAATAATCTGGAAGCATGTGCGAAGACCGTCTCTTTCAATGAATCAAGCAG 1059  
QY 1013 GCCAGCTTTCTGCTGCAGACAGTTGAGCTGGGTCTCTGGGTGGGATGTTGATTTG 1072  
Db 1060 CAGAACTATATCTGATTTCAAGTTATTGAAAGGGATCTTTAGTTGGGATGTTTACATTTG 1119  
QY 1073 ACAGTGTCTCCATCTCAAAAGTGAACCTCATACATATAACAGTGGCAGTGACAGGGACA 1132  
Db 1120 ACAGTGTCTGTAATCCAAATCATCTAAACAAGATTAATGATGATGATGTTTACCAA 1179  
QY 1133 CACTCGCCAAAGATTAACCTGCAGCAGCTTCAGAGGAGCCTCCATCTGCAGCGGGCTTC 1192  
Db 1180 AGATCACCAGCAAACTGCTCAAGTAGTCAATGTTGGAACCTCAATTTGTAGAGGGCTCA 1239  
QY 1193 GATCGGATTTACTGTGTTAGTGAAGA---AATATCCAATGATGATGATCTGAAATTTGTC 1249  
Db 1240 AAGCAGGATTCAGGCAATATCCACAGTGACAGAGTACTTCTGGTTCTGAAATCATAC 1299  
QY 1250 TGCTGACGATGGGGAAGACAACTATAAGTGGGTGCTTTAAACGAGTCAACCAAGATG 1309  
Db 1300 TATTAACGATGGGAGATTAATGAATTAATTCATGCTTTGAGGATGTAAGACGAAGTG 1359  
QY 1310 GTGCCATCATCCACACAGTCTGTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGT 1369  
Db 1360 GTGCAATCATCCACACCATTTGCTCTGGAGCCCTCTGCTGCCAAGAACTGAGAGCATTTG 1419  
QY 1370 CCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACTAGGCTCA 1429  
Db 1420 CAAATATGACAGGAGGATATCGTTTTTTTGGCAAATAAAGACATA-----ACTGGCTTA 1473  
QY 1430 TTGATGCTTTTGGGGCCCTTTTCATCAGAAATGGAGCTGTCTCTCAGGCTCCATCCAGC 1489  
Db 1474 CTATGCTTTTCAGTAGAATTTTCATCTAGAAGTGGAGCATCACTTCAGCAGGCTATT 1533  
QY 1490 TTGAGATGAAGGATTAACCCCTCCAGAAACAGCCAGTGGATGAATGGCACAGTGTCTGG 1549  
Db 1534 TGGAAACAAAGCCTTGAAATTTACAGGAAGGAAAGAGTAACGGCACAGTGCCTGTAG 1593  
QY 1550 ACAGCAGGTTGGGAAAGGACATTTTGTCTTATCCTGAGCAACCGAGCCTCCCAAA 1609  
Db 1594 ACAGTACAGTTGGAATGACACTTCTTCTGTGTGATGATGATGATGATGATGATGATG 1653  
QY 1610 TCCTTCTCTGGGATCCCAAGTGGACAGAGCA-----AGTGGCTTTGTAGTGACA 1660

Db 1654 TTGTTTCCAGATCCAAAGGAAGAAATATATAAACCTCGATTTCAAAGAGTAAGT 1713  
QY 1661 AAAACACCAAAATGGCCCTACCTCCAAATCCAGGCAATGCTAAGGTTGGCACTTGGAAAT 1720  
Db 1714 TAAATATTCGATCTGCTGCTGCAAAATACCTGGTATTGCGAGACAGGTACTTGGACTT 1773  
QY 1721 ACAGTCT-----GCAAGCAAGCTCAGAAACCTTGACCTGACTGTCAAGTCCCGTG 1771  
Db 1774 ACAGCTTCTTAATAATCATGCGAGCTCTCAAATGCTAACAGTGAAGTGAAGTCAAGTCCGAG 1833  
QY 1772 GGTCAATGCTACCTGCTCCCAATTCAGTCACTTCCAAAACGAAACAGGACACAGCA 1831  
Db 1834 CAAGAAGTCTTACTATACCCCGATTAATGCAACAGCTCACATGATGCAACATACAGCAC 1893  
QY 1832 AATTCGCCAGCCCTCTGGTGGTATGCAAAATPATTCGCAAGAGCCCTCCCAATTCCTCA 1891  
Db 1894 ATTATCTTAGCCCAATGATGTTTATGCAAGAGTCAAGTCAAGGTTTTCCTGTACTGG 1953  
QY 1892 GGGCAGGTGTACAGCCCTGATTGAATCAGTGAATGGAAGAAACAGTACTTGGAACTAC 1951  
Db 1954 GAATCAGTGAATAGCCATTATAGAAACCGAAGATGGAGATCAAGTAAATTTGGAGCTCT 2013  
QY 1952 TGGATAATGGACAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCA 2011  
Db 2014 GGGCAATGGTCCAGGTCTGTGATCTGTCAGAAATGATGGCATCTACTCAAGATCTTTA 2073  
QY 2012 CAATTTATGACAGATGTTAGATACAGTGTAAAAGTGGGGCTCTGGAGGAGTTAAG 2071  
Db 2074 CAGATTACTATGAAATGTTAGATACAGTGTAAAGTATCATGCACAGGCAAGAAACACA 2133  
QY 2072 CAGCCAGCGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGCTGGATG 2131  
Db 2134 CGGCTAGGTTAAATTTAAGACACACCAAGAAAGTTCTATATGTTCCAGGCTAGTTG 2193  
QY 2132 AGAATGATCAATACAAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAAC 2191  
Db 2194 AAAACGGTAAATATATCTGAAACCCACAGACCTGAAGTCAAGATGACCTGGCAAG 2253  
QY 2192 ACAAGCAAGTGTGTTTACAGCAAGACATCTCGGGAGGCTCATTTGTTGGCTTCTGATGTC 2251  
Db 2254 CTAAATAGAAAGACTTTAGCAGACTAACCTCTGGAGGGTCAITTTACTGTATCAGGAGCTC 2313  
QY 2252 CAATGCTCCCA---TACCTGATCTCTCCACCTGGCCCAATCACCGACCTGAAGCGG 2308  
Db 2314 CTCCTCTGGTAATACCTTCTGTGTTCCCAACAGTAAGATTAAGATCTTTGGGCTA 2373  
QY 2309 AAATTCACGGGGCAGTCTCAITTAATCTGACTTGGACAGCTCTCTGGGGATGATTAATGACC 2368  
Db 2374 AGTTCAAGAAG---ATTATATTCAACTTTCATGGACAGCCCTGGCAATGCTTAGATA 2430  
QY 2369 ATGGAACAGCTCACAAGTATATCAATTCGAATAGTACAAGTATCTTTGATCTCAGAGACA 2428  
Db 2431 AAGGAAAGCCACAGCTACATTAAGAATAGTAAGAGTTTCATGGATCGTCAAGAAG 2490  
QY 2429 AGTTCAATGAATCTCTTCAAGTCAATACTACTCTCTCATCCCAAGGAAGCCAACTCTG 2488  
Db 2491 ATTTGACATGCGAATCTTAGTGAATCTTAACTAATTAATCTAAGAGGCGCGATCAA 2550  
QY 2489 AGGAAGTCTTTTGTAAACCAAGAAACATTAATTTGAAATGGCACAGATCTTTTCA 2548  
Db 2551 AAGAAATTTGAAATTTAAGCCAGAACATTTTAGAGTAGAATATGGCACAATTTCTATA 2610  
QY 2549 TTGCTATTCAGGCTGTTGATAGGTCGATGAATTCAGAAATCAGAAATATCCAACTTGCAGG 2608  
Db 2611 TTTTCAAGCAAGCCATCAAGCAAGCAATCTCTCTCAGAGGTTTCTCAATTTGTACAAG 2670  
QY 2609 TATCTTTGTTTATCTCTCCAC 2629  
Db 2671 CAATCAAAATTTATCTCTCTAC 2691

RESULT 12

US-09-193-562D-33

; Sequence 33, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 33  
; LENGTH: 3022  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-193-562D-33

Query Match 28.2%; Score 840.6; DB 3; Length 3022;  
Best Local Similarity 60.5%; Pred. No. 7,5e-249;  
Matches 1554; Conservative 0; Mismatches 974; Indels 39; Gaps 9;  
QY 91 TCACCTCATTTAGCTCAACACAAATCGCTATGAGGCAATGTCTGTCGAATCGACCCCAAT 150  
Db 81 TCCATGGTGCATCTCAACAGCAATGGATACGAGGGTGTGGTCAATGGCCATTAACCCCAAT 140  
QY 151 GTGCCAGAGATGAACACTCATTTCAACAAATAAAGGACATGGTACCCAGGCATCTCTG 210  
Db 141 GTGCCAGAGGAGAAAGGCTCATCCCAAGCATAAAGGAAATGGTAACCTCAAGCTTCTAC 200  
QY 211 TATCTGTTTGAAGCTTACAGGAAGCGATTTATTTCAAAATGTTGCCATTTTGTATTCCT 270  
Db 201 TACCTGTTTGAAGCCAGCCAGGAGAGATTTATTTTCAGCAACATTAAGCATATAGTCCCG 260  
QY 271 GAAACATGGAACACAAAGGCTGACTATGTAGACCAAAACTTTGAGACCTTACAAAATGCT 330  
Db 261 ATGACTCGAAGTCGAAATCTGAGTACTTAATGCAAAACGAGAATCGTACGACAAAGCA 320  
QY 331 GATGTTCTGGTGTGCTGAGTCTACTCTCCAGTAAATGATGAACCTTACACTGAGCAGATG 390  
Db 321 GAGCTCATAGTTGCGGATCTCCTCCTGCAACATGAGAGAGCCCTTACCCCTTCAGTAT 380  
QY 391 GGCAACTGTGGAGAGAAAGGTCGAAAGGATCCACCTCACTCTCTGATTTCAATTCAGGAAAA 450  
Db 381 GGACAGTGTGGGAGCAGAGACAGTACATACACTTCACTTCCAACTTCTCTACTCTGAT 440  
QY 451 AAGTTAGCTGAATATGGACCAAGGTAGGCAATTTGTCCATGAGTGGGCTCATCTACGA 510  
Db 441 AACTTGGGTATCTATGGACCCGAGCGAGTCTTTGTCCATGAGTGGGCCCATCTCTCCG 500  
QY 511 TGGGGAGTATTTGACGAGTACAAATTAATGATGAGAAATCTTACTTATCCA---ATGGAAGA 567  
Db 501 TGGGGAGTATTTGATGAGTATTAACGTGGACCCGTCACTTTTACATTTCTAGAAGAACA 560  
QY 568 ATACAGCAGTAGTAAGATGTTTCAGCAGGTATTACTGGTACAAATGTAAGTAAGAGTGTAG 627  
Db 561 ATAGAAGCAACAGGTGCTCCGCGACATCACAGGCAAGAGTGTGTCCACGAGTGTCTAG 620  
QY 628 GGAGGAGCTGTATACCAAAAAGATGCACATTCATTAAGTAACAGGACTCTATGNAAAA 687  
Db 621 AGAGGAGCTGTGTGCAAGGGCGTGTGCTCGAAGACACGCGGTGTATGAACCC 680  
QY 688 GGATGTGAGTGTGTTCTCCCAATCCCGCCAGAGCGGAGGCTTCTATATATGTTTGACAAA 747  
Db 681 AATGTACATTTATCCAGCAAAATACAGACAGCTGGGGCCCTCCATATATGTTTCAATG 740  
QY 748 CATGTTGATTTCTATAGTTGAATTTCTGACAGAAACAAACCAACAAAGAGCTCCAAAC 807  
Db 741 AACCTCAATCTGTGGTGAATTTTGCACAGAAATAACCACAATGAGAAAGCCCAAC 800  
QY 808 AAGCAAAATCAAAATGCAATCTCCAGCAATGGAAGTATCGGTGATTTCTGAGGAC 867  
Db 801 CTACAAAACAAATGTGCAATCGCAGAGCACTGGGATGTAATCAAGACGTCTGTGTGAC 860

QY	868	TTTAAAGAAACCCTCTCTATG-----ACACACAGCCACCAAAATCCCACTTCTCATTTG	921
DB	861	TTTCAGAAATGCCCTCCCATCAGAGGAACAGAGCCCTCTCTCCACCTACATTTATCTG	920
QY	922	CTGCAGATTGGACAAAGAAATTTGTGTTTAGTCTTGACAAATCTGGAAGCATGGCGACT	981
DB	921	CTCAAGTCCAGAGCGAGTGGTGTCTGTCTGGATAAATCTGGAAGCATGGACAAA	980
QY	982	GGTAAACCGCCTCAATCGACTGAATCAGACAGCCAGCTTTTCTCTGTGTCAGACAGTTGAG	1041
DB	981	GAAGACCGTCTTATTTCGAATGAATCAAGACAGCAAGCTGTACTTAACTCAAATGTGGAA	1040
QY	1042	CTGGGGTCTCGGTTGGATGGTCACATTTGACAGTGTGCGCCATGTACAAAGTGAATC	1101
DB	1041	AAGGAGTCTATGGTTGATTTAGTTCACATTTGACAGCGCTGCCACATCCCAAAATTTACTA	1100
QY	1102	ATACAGATAAACAGTGGCAGTGCAGGGACACACTCGGCCAAAGATTACCTGCAGCAGCT	1161
DB	1101	ATAAAAATAACGACTAGTGTAGTACTCCAAAAGATCACCCGCAAACTCCCCCAAGCT	1160
QY	1162	TCAGGAGGAGCTCCATCTCGACGGGCTTCGATCGGCATTTACTGTGATTA---GGAAG	1218
DB	1161	TCGTGGTGAATCTCAATTTGCCATGSACTCCAGGCAGGATTTTCAGGCAATTAAGCTCCAGT	1220
QY	1219	AAATATCCAACTGATGATCTGAAATTTGTGCTGACGAGTGGGAAGACACACTATA	1278
DB	1221	GACCAGAGCACTTCCGGTTCTGAGATCGTATTGCTGACAGATGGGAAGATATTGNAATA	1280
QY	1279	AGTGGGTGCTTTAAACGAGGTCAAAACAAAGTGGTGCCATCATCCACACAGTTCGTTTGGGG	1338
DB	1281	CGTTCCTGCTTTCAGGCGCTCTCTCGCAGCGGTGCCATCATCCACACCATCGCTCTGGGG	1340
QY	1339	CCCTCTCGAGCTCAAGAACTAGAGGAGCTGTCBAAATGACAGAGGTTTACAGACATAT	1398
DB	1341	CCTTCCGGTGCCCGAAGACTGGAGACTCTCTGCGACATGACAGAGGGCTTCGTTTCTAT	1400
QY	1399	GCTTTCAGATCAAGTTTCAGAACATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGA	1458
DB	1401	GCCAAACAAAGACCT-----AAACAGCCTTATCGATGCTTTTCAGTAGAAATTCATCTACA	1454
QY	1459	AATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGAATTAACCTCCAGAAC	1518
DB	1455	AGTGGCAGCGTCTCCAGCAGGCTCTGCAGTTGGAGAGCAAGCCTTCGATGTGAGACA	1514
QY	1519	AGCCAGTGGATGAATGSCACAGTGTACGTGGACAGCACCGTGGGAAGGACACTTTGTTT	1578
DB	1515	GGGGCATGGATAACCGGTACGTACCTCTCGACAGTACCGTCCGGCACGACGAGTTCCTTT	1574
QY	1579	CTTATCACTTGGACACGCGCTCCCAAAATCTCTCTGGGATCCAGTGACAGAGAAG	1638
DB	1575	GTATCACCTTGGATGTTAAAAGCCAGAAATCATTTCCAAGTCCAAAGGAAGAAA	1634
QY	1639	CA-----AGTGGCTTTGTAGTGGACAAAAACCAAAATGGCCTACCTCCAAATC	1689
DB	1635	TATACAACCTCAGATTTCCAAGATGATAAACTAAACATCCGCTCTGTAGACTTCAATA	1694
QY	1690	CCAGGCAATTCCTAAGTTGGCACTTGGAAATACAG---TCTGCAAGCAAGCTCACAAACC	1746
DB	1695	CCGGCACTCCAGACAGGTACTTGGACTTACAGCTTACACGGGTACCAAGTCTCAGTTG	1754
QY	1747	TTGACCTGACTGTACGTCGGTGGTCCAAATGCTACCTGCTCCAAATTCAGTGAAT	1806
DB	1755	ATTACAATGACAGTGACCACTCGAGCAAGAGTCCCAACATGGAAACCATCTCTGGGGTAC	1814
QY	1807	TCCAAAACGAACAGGACACCAAGCAATTTCCCCAGCGCTCTGGTAGTTTATGCAAAATTT	1866
DB	1815	TGCTACATGATGATCAGAGCACAGCCAGTACCTTAGCCGGATGATTTGTGTCGACACGGGTC	1874
QY	1867	CGCCMAGGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAAT	1926
DB	1875	AGCCAAAGGATTTTGGCTGTTCTTGGGAGCCAAATGTCAAGCCCTCTAGAAGCTGAACAT	1934

Qy	1927	GGAAAAACAGTTACCTTGGAACTACTCTGGATAATGGACAGGTGCTGATCTACTAAGCAT	1986
Db	1935	GGACATCAAGTCACCTTTGGAGCTCTGGGCAATGGGCGAGGTGCTGATATCGTTAAAAAT	1994
Qy	1987	GACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAATGTTAGATACAGTGTAATA	2046
Db	1995	GATGGCATCTACACAAGATATCTTACAGATTATCATGMAATGTTAGATACAGCTTAAA	2054
Qy	2047	GTGGGGCTCTGGAGGAGTTAAACGACGCCAGACGGAGAGTGATACCCACAGCAGGTGGA	2106
Db	2055	GTGGGTGTCCAGGCACAAAGAAACAAACACAGACTGAGCTTAAAG---CAGAAGAACAAAG	2111
Qy	2107	GCACGTACATACCTTGGCTGGATTGAGAAATGATGAAATACAAATGGAATCCACCAAGACCT	2166
Db	2112	TCATTATATATCTTGGCTATGTGGAATAATGTTAAATTTGATCTGAATCCACCCAGACCA	2171
Qy	2167	GAATTAATTAAGGATGATGTTCAACACAAGCAAGTGTTTTCAGCAGAACATCTCCGGGA	2226
Db	2172	GATGTCCAAGAAAGACCATAGAGCTTACAGTGGAGACTTCAACAGAGTAACCTCTGGA	2231
Qy	2227	GGCTCAAT---TGTTGGCTTCTGATGTCCCAAAATGCTCCCATACCTGATCTCTTCCACCT	2283
Db	2232	GGTCTGTTTACTTGTTCTGGAGCGCCCTTGATGGCGACCAACGCTCGTGTGTTTCCACCA	2291
Qy	2284	GGCCAAATCACCGACCTGAAGGGGGAAATTCACGGGGCGAGTCTCATTAATCTGACTTGG	2343
Db	2292	AGTAAAGTCAAGACCTTGAGGCTGAGTTTATAGGTG---ATTATATTACCTTACATGG	2348
Qy	2344	ACAGCTCTGGGATGATATGACCATGGAAACAGCTCAACAAGTATATCATTCGAATAGT	2403
Db	2349	ACGCCCCCTGGCAAGGTTCTCGACAAATGGAAGAGACATAGATACATCATCAGAAAGAC	2408
Qy	2404	ACAAGTATTTCTGATCTCAGAGACAAAGTTCAAATGAATCTCTTCAAGTGAATACTACTGCT	2463
Db	2409	CAGATCCTCTGGATCTCCAAGAGATTTTAAACAATGCTACTTTAGTGAATGTTCCAGT	2468
Qy	2464	CTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACACAGAAAACATTACT	2523
Db	2469	CTGATACCTTAAGAAAGCTGGCTCAAAAGAGCAATTTAAATTTCAAAACAGAAAACTTTAA	2528
Qy	2524	TTTGAATAATGGCACAGATCTTTTTCATTGCTATTTCAGGCTGTTGATAGGTCGATCTGAA	2583
Db	2529	ATAGCAATGGCATCCAGCTCTCATTTGCAATCCAGCAGACAAATGAAGCCAGTCTCACC	2588
Qy	2584	TCAGAAATATCCAAACATTCGACAGTATCTTTGTTTATTCCTCCACA	2630
Db	2589	TCTGAGTCTCCAAACATCCGACAGGCTGTCAAGCTTACTTCTCTAGA	2635

```

RESULT 13
US-10-055-412B-33
? Sequence 33, Application US/10055412B
? Patent No. 6692939
? GENERAL INFORMATION:
? APPLICANT: Pauli, Benedicht U.
? TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
? FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
? FILE REFERENCE: 18617.0058
? CURRENT APPLICATION NUMBER: US/10/055,412B
? CURRENT FILING DATE: 2001-10-29
? PRIOR APPLICATION NUMBER: US/09/193,562
? PRIOR FILING DATE: 1998-11-17
? PRIOR APPLICATION NUMBER: US/60/065,922
? PRIOR FILING DATE: 1997-11-17
? NUMBER OF SEQ ID NOS: 47
? SEQ ID NO 33
? LENGTH: 3022
? TYPE: DNA
? ORGANISM: Mus musculus
US-10-055-412B-33

Query Match      28.2%; Score 840.6; DB 4; Length 3022;
Best Local Similarity 60.5%; Pred. No. 7.5e-249;

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Matches 1554; Conservative		0; Mismatches	974; Indels	39; Gaps	9;																											
QY	91	TCAC	TCA	TTCA	CTCAG	CTGA	CAACAA	CAATGG	CTATG	AGGCA	TTG	TG	CG	TTG	CA	AT	TC	GA	CC	CA	AT	150										
Db	81	TCCAT	GGTGC	ATCT	CAACAGCA	ATGAT	ACGAGGG	TGTG	GTCA	TGCCAT	TTAA	ACCC	CAAT	140																		
QY	151	GTGCC	AGA	AGATGA	AA	CACTCA	TTCA	CA	AAATAA	AGGCA	CATG	GTG	ATGCC	AGG	CATCT	CTG	210															
Db	141	GTGCC	AGAG	CAAA	AGGG	CTAT	CC	CA	AGCATA	AAAGGA	ATGG	TAA	CTCA	AG	TTCT	TACC	200															
QY	211	TATCT	GTTT	GAAG	CTAC	AG	AAAG	CGAT	TTTAT	TTT	CA	AAAA	ATG	TG	CCCAT	TTT	TGAT	TC	CT	270												
Db	201	TACCT	GTTT	GAAG	CCAG	CA	AG	AG	GTTT	ATTT	CA	GG	NA	CA	TA	AG	CA	TAT	TAG	TCCG	260											
QY	271	GAACA	TGA	AG	CAAA	GGCTG	AT	AT	GTAG	AC	CAAAA	CTT	GA	AG	CA	CTTAC	AAAA	TG	CT	330												
Db	261	ATGAC	CTG	GAAG	TCG	AAATCT	GA	GTACT	TAAT	TGCC	AAAA	CGAG	AA	TCGT	AC	GA	CA	AA	GA	CA	320											
QY	331	GATG	TTCT	GGTCT	CAG	TCTACT	CT	CC	AGGT	TAAT	GTAG	GA	CC	CTTAC	AT	CTG	AG	CA	GT	390												
Db	321	GACGT	CA	TAG	TTG	CGGAT	CTCT	AC	CTT	CA	ACAT	TGG	AG	CA	GC	CCCTT	CA	GC	TT	CA	GTAT	380										
QY	391	GGCA	ACT	GTG	GAG	AGGG	TGA	AGG	ATCC	ACT	CT	CT	CT	CT	CT	CT	CT	CT	CT	CT	450											
Db	381	GGAC	AGT	GTGG	CA	GAG	AG	CAG	TAC	ATAC	CTT	CA	CT	CC	AAAA	CTT	CT	CT	CA	CT	GAT	440										
QY	451	AA	GT	AG	CTGA	ATAT	TG	GA	CC	CA	AA	GG	CA	TTT	T	GC	AT	GAG	TGG	GT	CA	TAC	GA	510								
Db	441	AA	CT	CG	TA	CTAT	CT	GA	CC	CC	AG	CG	AG	CT	TTT	T	GC	AT	GAG	TGG	GT	CA	CT	CGG	500							
QY	511	TGGG	AG	TATTT	CA	CG	AG	TACA	TAAT	TG	ATGA	AAAA	TTT	CT	AT	CT	AT	T	T	CC	---	AT	GA	AA	567							
Db	501	TGGG	AG	TATTT	CA	CG	AT	TA	AC	GTG	GC	CG	GT	CA	CTT	T	AC	AT	TT	CT	GA	AA	GA	CA	CT	560						
QY	568	AT	CA	AG	CA	GT	AA	GT	TT	CA	CG	AG	TA	TT	CA	CT	GT	GA	CA	AA	AT	GT	GA	AG	AT	GT	CA	627				
Db	561	AT	GA	AG	CA	CA	AG	GT	GT	CT	CC	GG	CA	AT	CA	CA	AG	CA	AG	GT	GT	GT	CT	CA	CA	AG	AT	GT	CA	620		
QY	628	GA	GG	CA	GT	GT	TT	CA	CC	AA	AG	AT	GC	CA	AT	CA	AA	TAA	AG	TA	AC	AG	CA	CT	CT	AT	GA	AA	687			
Db	621	AG	AG	CA	GT	GT	GT	GA	CA	AG	GG	GT	CC	GG	GT	CA	CT	GA	AG	CA	CA	CG	CT	GT	AT	GA	CC	680				
QY	688	GA	GT	GA	GT	TT	CT	CT	CA	AT	CC	CC	CA	AG	CA	GG	AG	AG	CT	CT	TA	TA	AT	GT	TT	GA	CA	AA	747			
Db	681	AA	AT	GT	TA	CA	TTT	AT	CC	CA	GA	CA	AA	AT	TA	CA	CA	AG	CT	GG	GC	CT	CC	CA	TA	AT	GT	TC	AT	CA	740	
QY	748	CA	T	TT	GA	TTCT	AT	AG	TT	CT	GA	CA	GA	CA	AA	CC	CA	CA	AA	CA	AA	AG	AG	CT	CC	AA	807					
Db	741	AA	CT	CA	AT	TTCT	GT	GT	TT	GA	AT	TT	GA	CA	GA	AA	AT	TA	CC	CA	AT	GT	GA	AG	CC	CC	AA	800				
QY	808	AA	GC	AA	AA	AT	CA	AA	AT	GC	AA	CT	CC	GA	AG	CA	CA	AT	GG	AG	AT	GA	T	CG	GT	GA	TT	CT	GA	GG	AC	867
Db	801	CT	CA	AA	CA	AA	AT	GC	AA	AT	GC	AA	CT	CC	GA	AG	CA	CA	CT	GG	AT	GA	T	CA	AG	AG	CT	GT	CT	GA	CC	860
QY	868	TT	TA	GA	AA	AA	CA	CT	CT	CA	TG	-----	AA	CA	AG	CA	CA	AA	AT	CC	CA	CT	CT	CT	CA	TT	GT	921				
Db	861	TT	T	CA	AA	T	GC	CC	CT	CC	CA	T	GA	GG	AA	CA	GA	AG	CC	CT	CT	CC	CA	CT	GA	TT	TA	CT	GT	920		
QY	922	CT	CA	GA	TT	GG	CA	AA	GA	AT	T	GT	GT	TT	AG	T	CT	CT	GA	CA	AA	AT	CT	GA	CA	AT	CT	GA	GG	CA	CT	981
Db	921	CT	CA	AG	TC	CA	AG	GG	CG	AG	T	GG	T	GT	CT	GG	AT	TA	AA	TT	CT	GA	AG	CA	AT	GG	CA	CA	980			
QY	982	GG	TA	AC	GG	CT	CA	AT	CG	AC	T	GA	AT	CA	AG	CG	CC	AG	CT	TT	CT	CT	GT	CT	GA	CA	AG	TT	GA	1041		
Db	981	GA	AG	AC	CG	CT	TT	AT	CG	AA	T	GA	AT	CA	AG	CG	AG	AA	CT	GT	T	AA	CT	CA	AA	AT	TT	GT	GA	1040		
QY	1042	CT	GG	GT	CT	GG	GT	GG	AT	GG	AT	TT	GA	CA	TT	TT	GA	CA	GT	CT	CC	CA	CT	GA	AA	GT	GA	CT	1101			
Db	1041	AAG	AG	CT	TA	TG	TT	GG	AT	TAG	T	CA	CA	AT	TT	GA	CA	GC	GT	CC	CA	CA	CT	CA	AA	AT	T	AT	CT	1100		
QY	1102	AT	CA	GA	T	AA	CA	GT	GG	CA	GT	GA	CG	GA	CA	CA	CT	CG	CA	AA	AG	AT	T	TA	CT	GA	CG	AG	CT	1161		
Db	1101	AT	AA	AT	AC	GA	T	AG	T	AG	T	AG	T	AG	T	AG	T	AG	T	AG	T	AG	T	AG	T	AG	T	AG	T	AG	1160	

QY	1162	TCAGGAGGACGTCACATCTGACGCGGCTTCGATGCGCATTTACTGTGATTA---GGAAG	1218
DB	1161	TCGTGTGAACTTCAATTTGCCATGGACTCCAGCGCAGGATTTTCAGGCAATTTACTCTCCAGT	1220
QY	1219	AAATATCCAACTGATGGATCTGAAATTTGCTCTGACGGATCGGGAAGACAACACTATA	1278
DB	1221	GACCAGAGCACTTCCGGTTCGTGAGATCGTATTCTGACAGATGGGAGAGTAATGGAATA	1280
QY	1279	AGTGGGTGCTTTAAACGAGGTCAAAACAAGGTGGTCCCATCATCCACACAGTCGCTTTGGGG	1338
DB	1281	CGTTCCTGCTTTGAGGCGGTCTCTCGCAGCGTGCATCATCCACACCATCGCTCTGGGG	1340
QY	1339	CCCTCTCGAGTCAAGAACTTAGGAGCTGTCCAAATGACAGAGGTTTACAGACATAT	1398
DB	1341	CTTTCGGTGCCCGAGAACTGGAGACTCTCTCGGATGACAGAGGGCTTCGTTCTAT	1400
QY	1399	GCCTTCAGATCAAGTTTCAGAAATGGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGA	1458
DB	1401	GCCAAACAAGACCT-----AAACAGCCTTATCGATGCTTTCAGTAGATTTTCATCTACA	1454
QY	1459	AATGGAGCTGTCTCTAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTTCAGAAC	1518
DB	1455	AGTGGCAGCGTCTCCACAGCGGTCTGCAGTTGGAGAGCAAGCCTTTCGATGTCCAGACA	1514
QY	1519	AGCCAGTGGATGAATGSCACAGTGTGCTGCGACAGCACCGTGGCAAGGACACTTTGTTT	1578
DB	1515	GGGGCATGGATAAACGTTACAGTACCTCTCGACAGTACCGTCCGCAACGACAGTCTTTT	1574
QY	1579	CTTATACCTGGACAACGCGCTCCCCAAATCTTCTCTGGGATCCGATGCGACAGAAG	1638
DB	1575	GTATTACCTTGGATGGTGTAAAAAAGCCAGAAATCATTTCTCAAGATCCAAAGGAAAAAAA	1634
QY	1639	CA-----AGTGGCTTTGTAGTGGCAAAAACACAAATGGCCCTACCTCCCAATC	1689
DB	1635	TATACAACCTCAGATTTCCAAGATGATPAACTAAACATCCGGTCTGCTAGACTTCAAATA	1694
QY	1690	CCAGCATTTGTAAGTTTGGCACTTGGAAATACAG---TCTGCAAGCAAGCTCACAAACC	1746
DB	1695	CCGGCACTGCAGACAGGTACTTGGACTTACAGCTACACGGGTACCAAGTCTCAGTTG	1754
QY	1747	TTGACCTTGACTGTCAAGTCCGTGGTCCCATGCTACCTCCGTCCTCAATTCAGTGACT	1806
DB	1755	ATTCAATGACAGTGACCACTCGCAGCAAGAAGTCCCAACATGGAACCACTCTCTGGGCTAC	1814
QY	1807	TCCAAAACGAACAAGGACACAGCAAAATCCCCACAGCCCTCTGGTGTGTTTATGCAAAATT	1866
DB	1815	TGCTACATGATCAGACACAGCCAGTACCTTAGCCGGATGATTGTATCAGCAGGGTCT	1874
QY	1867	CGCAAGAGCCTCCCAATTTTCAGGGCCAGTGTCAAGCCCTTGATTGAATCAGTGAAT	1926
DB	1875	AGCCAAGATTTTTCCTGTCTCTGGAGCCAATGTCAAGCCCTTCATAGAAGCTGAACAT	1934
QY	1927	GGAAACAGTTTACCTTTGGACTACTTGATAATGGAGCAGTGCTGATCTACTAAGGAT	1986
DB	1935	GGACATCAAGTCACTTTGGAGCTCTGGGACAAATGGGGCAGGTGCTGATTCGTTAAAAT	1994
QY	1987	GACGGTGTCTACTCAAGTATTTTCAACACTTATGACAAGAAATGGTAGATACAGTGTAAAA	2046
DB	1995	GATGGCATCACAAAGATCTTTACAGATTTATCATGGAATGGTAGATACAGCTTAAAA	2054
QY	2047	GTGCGGGCTCTGGAGAGATTAAACGACGAGCAGAGAGTGATACCCAGCAGAGTGGGA	2106
DB	2055	GTGCGGTGCCAGGCACAAAGAAACAAACACAGACTGAGCTTTAGA---CAGAAGAACAG	2111
QY	2107	GCACGTGCATPACCTGGCTGGAATTGAGAATGATGAATAACAATGGAAATCCACCAGACCT	2166
DB	2112	TCTTTATATATACCTGGCTATGTGAAAAATGGTAAAAATGTACTGTAATCCACCCAGACCA	2171
QY	2167	GAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGACATCTCTCGGA	2226
DB	2172	GATGTCCAAGAGAAGCCATAGAAGCTACAGTGGAAAGACTTCAACAGAGTACCTCTGGA	2231



Db 1417 TATAGTGTGGGAAGTTCATCTTTTGTGGACATCGTTTTTATGCCCATAAAAACAATAAT 1476  
QY 1423 GGCCTCATGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCC 1482  
Db 1477 GGCCTTAATGATGCTTTTCAGCAGAAATTTTCATCTAGAAAGTGGCAGCATCTCTCAGCAGGCT 1536  
QY 1483 ATCCAGCTTGAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCACAGTG 1542  
Db 1537 CTTTCAGTGGAAAGTAATACTTTGATATCCAGCGAAGAAATGGATAATGTAAGTG 1596  
QY 1543 ATCTGGACAGCACCGTGGAAAGGACACTTTTGTTCATCAGCTGGACAAACGAGCCT 1602  
Db 1597 CCGTGGATAGTACAGTTAGAAATGATACTTCTTGTGTGCATGGACGATACAAAG 1656  
QY 1603 CCCCAATCTTCTCTGGATCCAGTGGACAGCAAGCAAGTGGCTTTGT-----A 1653  
Db 1657 CCAGCAATTAATCTTCAGATCCAAAGGAAAGAAATAATATACCTTCAGATTTTCAAGAA 1716  
QY 1654 GTGGACAAACACCAAAATGGCTTACCTCCAAATCCCAAGGCATTTGCTAAGTGTGGCCT 1713  
Db 1717 GGTGAATAAATATTCGGTCTGCCGTCTTCGATACAGGTATTCAGAGACAGGCAT 1776  
QY 1714 TGGAAATACAGTCTGAA-----GGAAGTCAAAACCTTGACCCCTGACTGTCAAG 1764  
Db 1777 TGGACTTACAGGCTTCGAAACCAATCATACCAATCTCAATTCGTAATGTGACAAATGACC 1836  
QY 1765 TCCCGTGGTCCAAATGCTACCTGCTCCCAATTCAGTGACTTCCAAACGACAAAGAC 1824  
Db 1837 ACTCAGACAGAGCCCTACCACTCCCAAGTAATTCGCAATGTGCAATGAGTCAAAAT 1896  
QY 1825 ACCAGCAATTCCTCCAGCCCTCTGTAGTTTATGCAAAATATTCGCAAGGAGCCTCCCA 1884  
Db 1897 ACAGCTATTACCTAGCCAGTGAATTTATGATGTGTGCTCAGTCAAGGGTTTCTCT 1956  
QY 1885 ATTCTCAGGCGAGTGTCAAGCCCTGATTTGAATCAGTGAATGGAAGAAACAGTTTACCTTG 1944  
Db 1957 GTTCTGGGAATCAATGTAAACGCCATTATAGAAATGAAGAGGACATCAAGTAACATTG 2016  
QY 1945 GAATCTAGTGAATATGGAGAGGCTGCTGATCTGCTACTAGGATGAGGCTGTCTACTCAGG 2004  
Db 2017 GAGCTCTCGCAATGGCGAGGCTGCTGATTTCTCAAGAAATGATGGCATCTACTCAAGG 2076  
QY 2005 TATTTCAACACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGCGCTCTGGAGGA 2064  
Db 2077 TATTTTACAGATTACATGGAAATGGTAGATACAGTTTAAAGTCTTACCAGGCAAGA 2136  
QY 2065 GTTAAACGAGCCAGCAGAGAGTGATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
Db 2137 AAAAACACAGCTAGGC-----TAAGTCAACACAGAAATAAGCTCTGTATGTACCGGC 2190  
QY 2125 TGGATTGAGATGATGAATACATGGAAATCCACCAAGCCTGAAATTAATGAAGATGAT 2184  
Db 2191 TATGCTGAATGGAATAATTAATCTGAAACCCATCCAAACCTGAAAGTCAAGATGATGTG 2250  
QY 2185 GTTCAACACAGCAAGTGTGTTTCAGCAGAAACATCTCGGAGGCTCATTTGTGCTTCT 2244  
Db 2251 GAAGGAGCTCAACAGACAGCTTACAGCAGACTCAGCTCTGGAGGCTGTTTACTGTATCA 2310  
QY 2245 GATGT---CCCAATGTCCCATACCTGATCTCTTCCCACTCTGGCCAAATCACCGACCTG 2301  
Db 2311 GGAGTGCCTCTAATGTTAATCAITCTCAGGTGTTCTCACCTGGTAAATTTGTAGACCTC 2370  
QY 2302 AAGCGGAAATTCAGGGGGCAGTCTCAATTAATCTGACTTGGACAGCTCTCGGGGATGAT 2361  
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QY 2422 AGAGCAAGTTCAATGATCTCTTCAAGTGAATACTGCTCTCATCTCCCAAGGAAGCC 2481

Db 2488 CAAGAAGATTTTGTATAAAGCTGCTTTTAATAAATACTTCTGGTGTGATACCTAAGGAGCCT 2547  
QY 2482 AACTCTGAGGAAGTCTTTTGGTTTAAACCCAGAAACATTTACTTTTGAATAATGGCAGAT 2541  
Db 2548 GGTTCAGTAGAAGTTTTGAATTTAAACCCAGAAACCTTCTTAAATAGAGAATGGTACGACA 2607  
QY 2542 CTTTTCATCTGCTTATTCAGGCTGTTGATAGGTGATCTGAAATCAGAAATATCCAACTT 2601  
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Db 2668 GCACAAGCAACTTATTTATTTCTCCACAGGAACC 2702

RESULT 15  
US-10-055-412B-29  
; Sequence 29, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 29  
; LENGTH: 3418  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-055-412B-29

Query Match 27.9%; Score 832.6; DB 4; Length 3418;  
Best Local Similarity 59.9%; Fred. No. 2.4e-246;  
Matches 1603; Conservative 0; Mismatches 979; Indels 93; Gaps 9;

QY 46 GTGTTTCATCTTGATTTCTTCACTTCTAGAGGGGCCCTGAGTAATTTCACTCAATTCAGCTG 105  
Db 37 GTGATTTCTTCTTATCTCTTCTGCTCTGCTGTATTTGAAAGCTCACTGGTAACTTTG 96  
QY 106 AACCAATGCTATGAAGGCAATTTGTTGCAATTCGACCCCAATGTGCCAGAGATGAA 165  
Db 97 AATAACAATGATATGATGGCAATTTGATTGCAATTAATCCAGTGTACCAGAGATGAA 156  
QY 166 ACATCTATTCACAAATAAAGGACATGTGTACCCAGGCACTCTGTATCTGTTTGAAGT 225  
Db 157 AAATCTATTCACAAACATAAAGGAAATGTAATGAAAGCATCTACTCACTGTTTCATGCC 216  
QY 226 ACAGAAAGCATTTTATTTCAAAAATGTTGCCATTTTGTATTTCTGAAACATGGAAGACA 285  
Db 217 ACCAAACAAGAGCTTATTTGAGAAATGAAGCAATTTAATCCATGACCTACAAATCA 276  
QY 286 AAGGCTGACTATGTAGACCAAAAATTTGAGACCTTACAAAAATGCTGATGTTTCTGTTGCT 345  
Db 277 AAATCTGAGTACTTAATCCCAAAACAAAGAAACATATGACAGGAGATGTCTATGTTGCT 336  
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTTACACTGAGCGAGATGGGCACTGGAGAG 405  
Db 337 GATCTTACCTGAAATACGGAGATGATCCCTATACCTTCAATATGGAACATGTGGAGAT 396  
QY 406 AAGGCTGAAAGGATCCACCTCACCTCTGATTTTCAATTCAGGAAAAAAGTTAGCTGAATAT 465  
Db 397 AAAGCAATATATACATTTTACTCCAACTTCTTGTGTGACTAATACTTGGCTACCTAT 456  
QY 466 GGACCAAGGTAGGGCAATTTTCCATGAGTGGGCTCATCTTCAATGGGAGATTTTGAC 525  
Db 457 GGGCTCAGGTAAGTAATTTTGTCCATGGTGGGCCCATCTCCGTTGGGAGTATTGAT 516





Db 2668 GCACAAGCAACTTAATTTCCTCCACAGGAACC 2702

Search completed: October 18, 2004, 15:03:37  
Job time : 177.922 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: October 18, 2004, 14:21:36 ; Search time 930.916 Seconds

(without alignments)

16392.172 Million cell updates/sec

Title: US-09-049-696-20

Perfect score: 2983

Sequence: 1 GAATCACAGGAGATGTAC.....AAATGCTAACAACTGGGTA 2983

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3403857 seqs, 2557783690 residues

Total number of hits satisfying chosen parameters: 6807714

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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20: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2983	100.0	3111	9	US-09-823-356-25
2	2983	100.0	3111	9	US-09-981-353-191
3	2983	100.0	3111	15	US-10-235-994-25
4	2983	100.0	3267	9	US-09-764-868-22
5	2971.8	99.6	3007	14	US-10-055-412B-27
6	2966.2	99.4	3311	9	US-09-922-217-1056
7	2966.2	99.4	3311	9	US-09-833-263-1056
8	2966.2	99.4	3311	13	US-10-025-380-1056
9	2966.2	99.4	3311	15	US-10-393-590-11
10	2966.2	99.4	3311	15	US-10-393-590-11
11	2966.2	99.4	3311	15	US-10-393-590-11
12	2966.2	99.4	3311	15	US-10-393-590-46
13	2966.2	99.4	3311	15	US-10-393-590-47
13	2966.2	99.4	3311	15	US-10-393-567-11

14	2966.2	99.4	3311	15	US-10-393-567-12
15	2966.2	99.4	3311	15	US-10-393-567-46
16	2966.2	99.4	3311	15	US-10-393-567-47
17	2966.2	99.4	3311	15	US-10-394-087-11
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45	2966.2	99.4	3311	15	US-10-394-087-47

#### ALIGNMENTS

#### RESULT 1

US-09-823-356-25  
Sequence 25, Application US/09823356  
Patent No. US20010025098A1  
GENERAL INFORMATION:  
APPLICANT: Tang, Y. Tom  
APPLICANT: Bandman, Olga  
APPLICANT: Lal, Preeti  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Yue, Henry  
APPLICANT: Corley, Neil C.  
APPLICANT: Guegler, Karl J.  
APPLICANT: Kaser, Matthew R.  
APPLICANT: Shah, Purvi  
FILE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
FILE REFERENCE: PF-0489-1 CON  
CURRENT APPLICATION NUMBER: US/09/823,356  
CURRENT FILING DATE: 2001-03-30  
PRIOR APPLICATION NUMBER: 09/039,307  
PRIOR FILING DATE: 1998 March 13  
NUMBER OF SEQ ID NOS: 34  
SOFTWARE: PERL Program  
SEQ ID NO 25  
LENGTH: 3111  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-25

Query Match 100.0%; Score 2983; DB 9; Length 3111;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GAATATCAGGGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTCTCTCTGATT	60	1090	GCCCATGTACAAAGTGAACTCATACAGATAAACAGTGGCAGTGCACAGGGACACACTCGCC	1149
Db	10	GAATATCAGGGAGAGATGTACAGCAATGGGCCATTTAAGAGTTCTGTGTTCTCTCTGATT	69	1141	AAAAGATTACCTGAGCAGAGCTTCAGAGGGAGCTTCATCTCAGCGGCTTCGATCGGCA	1200
QY	61	CTTCACCTTTAGAGGGGCCCTGAGTAATTCACCTCATTTCAGCTGAAACAAATGGCTAT	120	1150	AAAAGATTACCTGAGCAGAGCTTCAGAGGGAGCTTCATCTCAGCGGCTTCGATCGGCA	1209
Db	70	CTTCACCTTTAGAGGGGCCCTGAGTAATTCACCTCATTTCAGCTGAAACAAATGGCTAT	129	1201	TTTACTGTGATTAGGAAGAAATATCCAACTCATGTGATCTGAAATTTGTCTGTGACGGAT	1260
QY	121	GAAGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCACAA	180	1210	TTTTCTGTGATTAGGAAGAAATATCCAACTCATGTGATCTGAAATTTGTCTGTGACGGAT	1269
Db	130	GAAGCATTGTGTTGCAATCGACCCCAATGTGCCAGAGATGAAACACTCATTCACAA	189	1261	GGGGAAGACAACTATTAAGTGGTGTCTTAAACGAGGTCAAACAAAGTGGTGCCTATC	1320
QY	181	ATAAGGACATGGTGACCCAGCACTCTGTAATCTGTTTGAAGCTACAGGAAGCGATT	240	1270	GGGGAAGACAACTATTAAGTGGTGTCTTAAACGAGGTCAAACAAAGTGGTGCCTATC	1329
Db	190	ATAAGGACATGGTGACCCAGCACTCTGTAATCTGTTTGAAGCTACAGGAAGCGATT	249	1321	CACACAGTCGTTTGGGGCCCTCTCGAGTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1380
QY	241	TATTTCAAATAATGTTGCCATTTGATCTCTGAAACATGGAACACAAAGGCTGACTATGTG	300	1330	CACACAGTCGTTTGGGGCCCTCTCGAGTCAAGAACTAGAGGAGCTGTCCAAAATGACA	1389
Db	250	TATTTCAAATAATGTTGCCATTTGATCTCTGAAACATGGAACACAAAGGCTGACTATGTG	309	1381	GGAGGTTTACAGACATATGCTTCAGTCAAGTTCAGAACTATGGCTCATTTGATGCTTTT	1440
QY	301	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTTCGTGAGTCTACTCTCCA	360	1390	GGAGGTTTACAGACATATGCTTCAGTCAAGTTCAGAACTATGGCTCATTTGATGCTTTT	1449
Db	310	AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTTCGTGAGTCTACTCTCCA	369	1441	GGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
QY	361	GGTAATGATGAACCTTACACTGAGCAGATGGCACTGTGGAGAGAGGGTGAAGGATC	420	1450	GGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1509
Db	370	GGTAATGATGAACCTTACACTGAGCAGATGGCACTGTGGAGAGAGGGTGAAGGATC	429	1501	GGATTAACCTTCAGAACAGCCAGTGGATGAATGGCAGTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1560
QY	421	CACCTCAGCTCTGATTTCATTGCGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG	480	1510	GGATTAACCTTCAGAACAGCCAGTGGATGAATGGCAGTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1569
Db	430	CACCTCAGCTCTGATTTCATTGCGGAAAAAAGTTAGCTGAATATGGACCAAGGTAGG	489	1561	GGAAAGGACACTTTGTTTCTTATCACTGGACAAAGCAGCCTCCCAAAATCTCTCTCTGG	1620
QY	481	GCATTGTCATGAGTGGCTCATCTACATGGGGAGTATTGACGAGTACAAATATGAT	540	1570	GGAAAGGACACTTTGTTTCTTATCACTGGACAAAGCAGCCTCCCAAAATCTCTCTCTGG	1629
Db	490	GCATTGTCATGAGTGGCTCATCTACATGGGGAGTATTGACGAGTACAAATATGAT	549	1621	GATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGGACAAACAAACCAAAATGGGCTAC	1680
QY	541	GAGAAATTCATATTCATGGAAGATACAGCAGTAAAGTTCACGAGTATTACT	600	1630	GATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGGACAAACAAACCAAAATGGGCTAC	1689
Db	550	GAGAAATTCATATTCATGGAAGATACAGCAGTAAAGTTCACGAGTATTACT	609	1681	CTCCAAATCCAGGACCTTCTAAGTTGGCAGTTCGAAATACAGTCTGCAAGCAAGCTCA	1740
QY	601	GGTACAAATGTAGTAAAGAGTGTACGGAGGAGCTGTTTACACAAAGAGATGCAATTC	660	1690	CTCCAAATCCAGGACCTTCTAAGTTGGCAGTTCGAAATACAGTCTGCAAGCAAGCTCA	1749
Db	610	GGTACAAATGTAGTAAAGAGTGTACGGAGGAGCTGTTTACACAAAGAGATGCAATTC	669	1741	CAAACTTCACCTGACTGTCTCAGTCCCGTGGCTCAATGCTACCTGCTCCCAATTACA	1800
QY	661	ATAAAGTAAAGCACTCTATGAAAGAGATGTGATTTGTTTCCAAATCCGCCAGAG	720	1750	CAAACTTCACCTGACTGTCTCAGTCCCGTGGCTCAATGCTACCTGCTCCCAATTACA	1809
Db	670	ATAAAGTAAAGCACTCTATGAAAGAGATGTGATTTGTTTCCAAATCCGCCAGAG	729	1801	GTGACTTCCAAAACGAAACAGACACCCAGCAAAATCCCGAGCCCTCTGGTAGTTATGCA	1860
QY	721	GAGAGGCTTCTATATGTTTGCACACATGTTGATTCATATGTTGAAATTCGTACAGAA	780	1810	GTGACTTCCAAAACGAAACAGACACCCAGCAAAATCCCGAGCCCTCTGGTAGTTATGCA	1869
Db	730	GAGAGGCTTCTATATGTTTGCACACATGTTGATTCATATGTTGAAATTCGTACAGAA	789	1861	ATAATTCGCGCAGGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTGAATCA	1920
QY	781	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGCACA	840	1870	ATAATTCGCGCAGGAGCTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTGAATCA	1929
Db	790	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGCACA	849	1921	GTCAATGGAAAAACAGTTTACTTGGAACTACTCGAATAATGGAGCAGGTGCTGATGCTACT	1980
QY	841	TGGAGAGTGTATCGGTGATTCAGGACTTTTAAAGAACCACTCCTATGACAAACAGCCA	900	1930	GTCAATGGAAAAACAGTTTACTTGGAACTACTCGAATAATGGAGCAGGTGCTGATGCTACT	1989
Db	850	TGGAGAGTGTATCGGTGATTCAGGACTTTTAAAGAACCACTCCTATGACAAACAGCCA	909	1981	AAGGATGACGGTGTCTACTCAAGGTAATTCACAACTTATGACACGAATGGTAGATACAGT	2040
QY	901	CCAAATCCCACTTCTCATGCTGCAATGGAGCAAGAAATGTGTGTTTGTAGTCTTGAC	960	1990	AAGGATGACGGTGTCTACTCAAGGTAATTCACAACTTATGACACGAATGGTAGATACAGT	2049
Db	910	CCAAATCCCACTTCTCATGCTGCAATGGAGCAAGAAATGTGTGTTTGTAGTCTTGAC	969	2041	GTAAAAGTGGGGCTCTGGGAGGAGTTTAAACGAGCAGAGGAGTGTATACCCAGCAG	2100
QY	961	AAATCTGGAAGCATGGCACTGTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020	2050	GTAAAAGTGGGGCTCTGGGAGGAGTTTAAACGAGCAGAGGAGTGTATACCCAGCAG	2109
Db	970	AAATCTGGAAGCATGGCACTGTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1029	2101	AGTGGAGCACTGTACATACCTGGCTGGATTGAGAATGATGAATGAAATGGAATCCACCA	2160
QY	1021	TTCTGCTGAGACAGTGTAGCTGGGGTCTGGTGGGATGGTGAATTTGACAGTGCT	1080	2110	AGTGGAGCACTGTACATACCTGGCTGGATTGAGAATGATGAATGGAATGGAATCCACCA	2169
Db	1030	TTCTGCTGAGACAGTGTAGCTGGGGTCTGGTGGGATGGTGAATTTGACAGTGCT	1089	2161	AGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCC	2220
QY	1081	GCCCATGTACAAAGTGAACCTCATACAGATAAACAGTGGCAGTGCAGGGACACACTCGCC	1140			



Db 970 AATCTGGAAGCATGGCGACTGGTACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT 1029  
Qy 1021 TTCTCTGCTGCAGACAGTGTAGCTGGGTCTGGGTGGGATGGTGACATTTGACAGTCT 1080  
Db 1030 TTCTCTGCTGCAGACAGTGTAGCTGGGTCTGGGTGGGATGGTGACATTTGACAGTCT 1089  
Qy 1081 GCCCATGTACAAAGTGAATCTCATACAGATTAACAGTGGCAGTGACAGGACACACTCGCC 1140  
Db 1090 GCCCATGTACAAAGTGAATCTCATACAGATTAACAGTGGCAGTGACAGGACACACTCGCC 1149  
Qy 1141 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCTCCATCTGCAGCGGCTTCGATCGGCA 1200  
Db 1150 AAAAGATTACCTGCAGCAGCTTCAGAGGAGCTCCATCTGCAGCGGCTTCGATCGGCA 1209  
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Db 1210 TTACTGTGATTAGGAAGAAATATCAACTGATGGATCTGAAATTTGTCTGTGACGGAT 1269  
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Db 1270 GGGGAAGACACACTATAAGTGGGTCTTTACGAGGTCAACAAAGTGGTCCCATATC 1329  
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Db 1390 GGAGGTTTACAGACATATGCTTTAGATCAAGTTTCAAGAACTAGAGAGCTGTCCAAAATGACA 1449  
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Db 1450 GGGGCGCTTTATCAGGAATAGAGCTGTCTCAGCGCTCCATCCAGCTCAGAGTAG 1509  
Qy 1501 GGATTAACCTCCAGAACAGCAGTGGATGAATGGCACAGTGTATGGTGACAGCACCGTG 1560  
Db 1510 GGATTAACCTCCAGAACAGCAGTGGATGAATGGCACAGTGTATGGTGACAGCACCGTG 1569  
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Qy 1621 GATCCAGTGGACAGACAGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTAC 1680  
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Db 1810 GTGACTTCCAAACAGACAGACACAGCAATTTCCAGCCCTCTGGTAGTTATGCA 1869  
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Qy 2041 GTAAAAAGTGGGCTCTGGGAGGAGTTTAAACGACAGGAGGAGTATACCCAGCAG 2100

Db 2050 GTAAAAAGTGGGCTCTGGGAGGAGTTAAACGACAGCAGCAGAGAGTGTATACCCAGCAG 2109  
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Db 2110 AGTGGAGCAGCTGATACATACCTGGCTGATTCAGAGATGATGAAATACAAATGGAATCCACA 2169  
Qy 2161 AGACTGAAATTAATTAAGGATGATTTCAACACAGCAAGTGTGTTCAGCAGAACATCC 2220  
Db 2170 AGACTGAAATTAATTAAGGATGATTTCAACACAGCAAGTGTGTTCAGCAGAACATCC 2229  
Qy 2221 TCGGAGGCTCATTTGTGGTCTTGATGTCCTCAAAATGTCCTCAATCTCTTCCCA 2280  
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Db 2350 TGGACAGCTCCTGGGATGATTTATGACCATGGAACAGCTCAAGTATATCATTCGAATA 2409  
Qy 2401 AGTACAAATATCTTGTATCTCAGACAGAAATGAAATCTCTTCAAGTGAATCTACT 2460  
Db 2410 AGTACAAATATCTTGTATCTCAGACAGAAATGAAATCTCTTCAAGTGAATCTACT 2469  
Qy 2461 GCTCTCATCCCAAGGAGCAACTCTCAGGAAGTCTTTTGTAAACACAGAAACATTT 2520  
Db 2470 GCTCTCATCCCAAGGAGCAACTCTCAGGAAGTCTTTTGTAAACACAGAAACATTT 2529  
Qy 2521 ACTTTTGAATGGCACAGATCTTTTCAATTCATTCAGGCTGTGTGATAAGTCTGATCTG 2580  
Db 2530 ACTTTTGAATGGCACAGATCTTTTCAATTCATTCAGGCTGTGTGATAAGTCTGATCTG 2589  
Qy 2581 AAATCAGAAATATCCAAATTCGACAGATGCTTTTGTATTCCTCCACAGACTCCGCA 2640  
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Db 2650 GAGACACCTAGTCTGTGATGAAACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2709  
Qy 2701 ATTCTGGCAATTCACATTTTAAATTTATGTGAAAGTGGATAGGAGAACTGCAGCTGCA 2760  
Db 2710 ATTCTGGCAATTCACATTTTAAATTTATGTGAAAGTGGATAGGAGAACTGCAGCTGCA 2769  
Qy 2761 ATAGCTAGGCTGAAATTTTGTCTCAGATTAATAAATAAATCAATTCATCTCTTTTGA 2820  
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Qy 2881 ATAGTACATTTATCTAAATGATTTCTCTAGGGGCGATATATAAATGATTTTGAAC 2940  
Db 2890 ATAGTACATTTATCTAAATGATTTCTCTAGGGGCGATATATAAATGATTTTGAAC 2949  
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Db 2950 TTCTCTAGGGGCGATATAAATAAATGCTAAACACTGGGTA 2992

## RESULT 3

US-10-235-994-25  
; Sequence 25, Application US/10235994  
; Publication No. US20030101002A1  
; GENERAL INFORMATION:  
; APPLICANT: Bartha, Gabor  
; APPLICANT: Walker, Michael  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS  
; FILE REFERENCE: ICYTP012  
; CURRENT APPLICATION NUMBER: US/10/235,994

; CURRENT FILING DATE: 2002-09-04  
; PRIOR APPLICATION NUMBER: US/10/003,608  
; PRIOR FILING DATE: 2001-11-01  
; PRIOR APPLICATION NUMBER: 60/245,081  
; PRIOR FILING DATE: 2000-11-01  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 25  
; LENGTH: 3111  
; TYPE: DNA  
; ORGANISM: Human  
US-10-235-994-25

Query Match  
Best Local Similarity 100.0%; Score 2983; DB 15; Length 3111;  
Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GAATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTTGATT	60
DB	10	GAATACACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTCTGTGTTCACTTTGATT	69
QY	61	CTTACACTTCTAGAGGGCCCTGAGTAATCACTCAATTCAGCTGAACAACATGGCTAT	120
DB	70	CTTACACTTCTAGAGGGCCCTGAGTAATCACTCAATTCAGCTGAACAACATGGCTAT	129
QY	121	GAAGGATTTGCTGTGCAATTCGACCCCAATGTGCCAGAGATGAACACTCAATCAACAA	180
DB	130	GAAGGATTTGCTGTGCAATTCGACCCCAATGTGCCAGAGATGAACACTCAATCAACAA	189
QY	181	ATAAAGGACATGGTCAACCCAGCATCTCTGATCTGTTTGAAGCTACAGGAAGCATTT	240
DB	190	ATAAAGGACATGGTCAACCCAGCATCTCTGATCTGTTTGAAGCTACAGGAAGCATTT	249
QY	241	TATTTCAAAATGTTGCCATTTGATTTCTGTAACATGCAACACAAAGCTGACTATGTG	300
DB	250	TATTTCAAAATGTTGCCATTTGATTTCTGTAACATGCAACACAAAGCTGACTATGTG	309
QY	301	AGACCAAACTTGAGACCTACACAAATGCTGATTTCTGGTGTGCTGACTCTCTCCA	360
DB	310	AGACCAAACTTGAGACCTACACAAATGCTGATTTCTGGTGTGCTGACTCTCTCCA	369
QY	361	GGTAATGATGACCTACACTGAGCAGATGGCAACTGTGAGAGAGGGTGAAGGATC	420
DB	370	GGTAATGATGACCTACACTGAGCAGATGGCAACTGTGAGAGAGGGTGAAGGATC	429
QY	421	CACCTCACTCTGATTTCAATTCAGAAAAAAGTTAGCTGAATGCAACAGAGTAGG	480
DB	430	CACCTCACTCTGATTTCAATTCAGAAAAAAGTTAGCTGAATGCAACAGAGTAGG	489
QY	481	GCATTTGCTCATGATGGGCTCATCTACGATGGGAGTATTGACGAGTACAATAATGAT	540
DB	490	GCATTTGCTCATGATGGGCTCATCTACGATGGGAGTATTGACGAGTACAATAATGAT	549
QY	541	GAGAAATCTACTTATCCATGGAGAGATACAGCAGTAAGATGTTGACGAGTATTACT	600
DB	550	GAGAAATCTACTTATCCATGGAGAGATACAGCAGTAAGATGTTGACGAGTATTACT	609
QY	601	GGTACAAATGTAGTAAAGAGTGTACGGAGGAGCTGTACACCAAAAGATGCACATTC	660
DB	610	GGTACAAATGTAGTAAAGAGTGTACGGAGGAGCTGTACACCAAAAGATGCACATTC	669
QY	661	AATAAGTAAACAGACTCTATGAAAAAGGATGTGAGTTTGTCTCCAAATCCCGCCAGCG	720
DB	670	AATAAGTAAACAGACTCTATGAAAAAGGATGTGAGTTTGTCTCCAAATCCCGCCAGCG	729
QY	721	GAGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTAGTTGAATTTCTGTACAGAA	780
DB	730	GAGAGGCTTCTATAATGTTTGCACACATGTTGATTTCTAGTTGAATTTCTGTACAGAA	789
QY	781	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGCACA	840
DB	790	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGCACA	849

QY	841	TGGGAAGTGTATCCGTGATTCTGAGGACTTTTAAGAAAAACCACTCTCTATGACAAACACGCCA	900
DB	850	TGGGAAGTGTATCCGTGATTCTGAGGACTTTTAAGAAAAACCACTCTCTATGACAAACACGCCA	909
QY	901	CCAAATCCCACTTCTCATTTGCTGAGATGGAACAAGATTTGTTGTTAGTCTTGTGAC	960
DB	910	CCAAATCCCACTTCTCATTTGCTGAGATGGAACAAGATTTGTTGTTAGTCTTGTGAC	969
QY	961	AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGCGCAGCTT	1020
DB	970	AAATCTGGAAGCATGGCGACTGGTAACCGCTCAATCGACTGAATCAAGCAGCGCAGCTT	1029
QY	1021	TTCTCTGCTCAGACAGTTGAGCTGGGCTCTGTTGGATGGTGAATTTGACAGTGTCT	1080
DB	1030	TTCTCTGCTCAGACAGTTGAGCTGGGCTCTGTTGGATGGTGAATTTGACAGTGTCT	1089
QY	1081	GCCCATGTACAAAGTGAATCATACAGATAAAGTGGGAGTGAACAGGAGACACACTCGCC	1140
DB	1090	GCCCATGTACAAAGTGAATCATACAGATAAAGTGGGAGTGAACAGGAGACACACTCGCC	1149
QY	1141	AAAAGATTACCTGCGAGCAGTTTCAAGAGGAGCTCCATCTGAGCGGGCTTCGATCGCA	1200
DB	1150	AAAAGATTACCTGCGAGCAGTTTCAAGAGGAGCTCCATCTGAGCGGGCTTCGATCGCA	1209
QY	1201	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGAT	1260
DB	1210	TTTACTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTGACGAT	1269
QY	1261	GGGGAAGCAACACATATAAGTGGTCTTTAAGAGGTCACAAAGTGGTGGCTATCATC	1320
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QY	1321	CACAGCTGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGGAGCTCTCCAAATGACA	1380
DB	1330	CACAGCTGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGGAGCTCTCCAAATGACA	1389
QY	1381	GGAGTTTACAGACATATGCTTCAAGTCAAGTTCAGAACTAGGCTCATTTGATGCTTTT	1440
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QY	1441	GGGGCCCTTTTCATCAGGAATAGGAGTCTCTCAGCGCTCCATCCAGCTTGAAGTAA	1500
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QY	1501	GGATTAAACCTCCAGAACAGCAGTGGATGAATGGCAGTGTGCGAGCAGCAGCTG	1560
DB	1510	GGATTAAACCTCCAGAACAGCAGTGGATGAATGGCAGTGTGCGAGCAGCAGCTG	1569
QY	1561	GGAAAGACACTTTGTTTCTTATCCTTGGAACAGGAGCTCTCCCAAAATCTCTCTG	1620
DB	1570	GGAAAGACACTTTGTTTCTTATCCTTGGAACAGGAGCTCTCCCAAAATCTCTCTG	1629
QY	1621	GATCCCACTGACAGAAAGAGTGGCTTTGATGAGCAAAACACAAATGGCTTAC	1680
DB	1630	GATCCCACTGACAGAAAGAGTGGCTTTGATGAGCAAAACACAAATGGCTTAC	1689
QY	1681	CTCAAAATCCAGCAATTTGATGAGTGGCACTTTGAAATACAGTCTGCAAGCAAGCTCA	1740
DB	1690	CTCAAAATCCAGCAATTTGATGAGTGGCACTTTGAAATACAGTCTGCAAGCAAGCTCA	1749
QY	1741	CAAACTTGACCTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1800
DB	1750	CAAACTTGACCTGACTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1809
QY	1801	GTGACTTCCAAAAACAGCAGGACACCAAAATTTCCAGCGCTCTGGTAGTTTATGCA	1860
DB	1810	GTGACTTCCAAAAACAGCAGGACACCAAAATTTCCAGCGCTCTGGTAGTTTATGCA	1869
QY	1861	AATATTGCGCAAGGAGCTCTCCCAATTTCTCAGGGCAGTGTACAGCCCTGATTGATCA	1920
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QY	1921	GTGAATGGAAAAACAGTTTACCTTTGGAACTACTGTGATAATGGAGCAGGTGCTGATCTACT	1980



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US-09-764-868-22
; Sequence 22, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 3267
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-22
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Query Match 100.0%; Score 2983; DB 9; Length 3267;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 61 CTTTCACCTTTCTAAGAGGGCCCTGAGTAAATTCACCTCAITTCAGCTGAACAAATGGCTAT 120
Db 71 CTTTCACCTTTCTAAGAGGGCCCTGAGTAAATTCACCTCAITTCAGCTGAACAAATGGCTAT 130
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Db 131 GAAGGCATTTGTCGTTGCAATCGACCCCAATGTGCCAGAAAGATGAACACITTCATTCACAA 190
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Db 431 CACCTCACTCTGATTTTCATTTGAGGAAAAAAGTTAGCTGAATATGACCAAGGTAGG 490
Qy 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 540
Db 491 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT 550
Qy 541 GAGAAATTTCTACTTTTCCAAATGGAAGAAATCAACAGCAGTAAGATGTTTCAGCAGGTATTACT 600
Db 551 GAGAAATTTCTACTTTTCCAAATGGAAGAAATCAACAGCAGTAAGATGTTTCAGCAGGTATTACT 610
Qy 601 GGTACAAATGTAGTAAAGAGTGTCCAGGAGGAGCTGTTTACACCAAAAAGATGCACATTC 660
Db 611 GGTACAAATGTAGTAAAGAGTGTCCAGGAGGAGCTGTTTACACCAAAAAGATGCACATTC 670
Qy 661 AATAAAGTACAGGACTCTATGAAAAGGATGTGAGTTTCTCTCCAAATCCCGCCAGACG 720
Db 671 AATAAAGTACAGGACTCTATGAAAAGGATGTGAGTTTCTCTCCAAATCCCGCCAGACG 730
Qy 721 GAGAAGGCTTCTATAATGTTTGCAACAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780
Db 731 GAGAAGGCTTCTATAATGTTTGCAACAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 790
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QY	781	CAAAACCAACAAGAGCTCCAAAACAAGCAAAATCAAAATGCAATCTCCGAAGACA	840
Db	791	CAAAACCAACAAGAGCTCCAAAACAAGCAAAATCAAAATGCAATCTCCGAAGACA	850
QY	841	TGGGAGTGTGCGTGTCTGAGGACTTTAAGAAACCACTCTATGACAAACAGCCA	900
Db	851	TGGGAGTGTGCGTGTCTGAGGACTTTAAGAAACCACTCTATGACAAACAGCCA	910
QY	901	CCAAATCCCACTCTCATTTGCTGCAATGGAACAAGAAATTTGTTAGTCTCTGAC	960
Db	911	CCAAATCCCACTCTCATTTGCTGCAATGGAACAAGAAATTTGTTAGTCTCTGAC	970
QY	961	AAATCTGGAAGCTGCGACTGCTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1020
Db	971	AAATCTGGAAGCTGCGACTGCTGTAACCGCTCAATCGACTGAATCAAGCAGGCCAGCTT	1030
QY	1021	TTCTCTGCTGACAGACTTGAGCTGGGGTCTTGGGTTGGGATGGTGAATTTGACAGTGT	1080
Db	1031	TTCTCTGCTGACAGACTTGAGCTGGGGTCTTGGGTTGGGATGGTGAATTTGACAGTGT	1090
QY	1081	GCCATGTACAAAGTGAATCTATACAGATAAACAAGTGGCAGTACAGGAGACACACTCGCC	1140
Db	1091	GCCATGTACAAAGTGAATCTATACAGATAAACAAGTGGCAGTACAGGAGACACACTCGCC	1150
QY	1141	AAAAGATTACCTGACAGCTTTCAGAGGAGAGTCCATCTGACGGGGCTTCGATCGGCA	1200
Db	1151	AAAAGATTACCTGACAGCTTTCAGAGGAGAGTCCATCTGACGGGGCTTCGATCGGCA	1210
QY	1201	TTTACTGTGATTTAGGAGAAATATCAACTGATGATCTGAAATTTGCTGCTGACGGAT	1260
Db	1211	TTTACTGTGATTTAGGAGAAATATCAACTGATGATCTGAAATTTGCTGCTGACGGAT	1270
QY	1261	GGGGAAGACAACTATTAAGTGGGTCTTTACAGAGGTCAAAACAAGTGGTCCATCATC	1320
Db	1271	GGGGAAGACAACTATTAAGTGGGTCTTTACAGAGGTCAAAACAAGTGGTCCATCATC	1330
QY	1321	CACACAGTGGTCTGGGGCCCTCTGAGCTCAAGAACTAGAGGAGCTGCCAAAATGACA	1380
Db	1331	CACACAGTGGTCTGGGGCCCTCTGAGCTCAAGAACTAGAGGAGCTGCCAAAATGACA	1390
QY	1381	GGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTAGGAGCTCTCAATGCTTTT	1440
Db	1391	GGAGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACTAGGAGCTCTCAATGCTTTT	1450
QY	1441	GGGGCCCTTTCAATCAGGAAATGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
Db	1451	GGGGCCCTTTCAATCAGGAAATGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1510
QY	1501	GGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGAATGGCACAGCACCGTG	1560
Db	1511	GGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTGAATGGCACAGCACCGTG	1570
QY	1561	GGAAAGACACTTTGTTCTTATCACCTGGACAGCGAGCTCCCAATCTCTCTGG	1620
Db	1571	GGAAAGACACTTTGTTCTTATCACCTGGACAGCGAGCTCCCAATCTCTCTGG	1630
QY	1621	GATCCCACTGACAGAAAGAGTGGCTTTGCTGAGTGGCAAAACACCAAAATGGCTTAC	1680
Db	1631	GATCCCACTGACAGAAAGAGTGGCTTTGCTGAGTGGCAAAACACCAAAATGGCTTAC	1690
QY	1681	CTCCAAATCCCAAGCTTGTGATGAGTGGCAATTTGGAATACAGTCTGCAAGCAAGCTCA	1740
Db	1691	CTCCAAATCCCAAGCTTGTGATGAGTGGCAATTTGGAATACAGTCTGCAAGCAAGCTCA	1750
QY	1741	CAAACTTGTACCTGTGATCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1800
Db	1751	CAAACTTGTACCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	1810
QY	1801	GTGACTTCCAAACGAAAGACAGGACACAGGAAATTTCCCGAGCCCTCTGGTATTTAGCA	1860
Db	1811	GTGACTTCCAAACGAAAGACAGGACACAGGAAATTTCCCGAGCCCTCTGGTATTTAGCA	1870

QY	1861	AAATTTCCGCAAGAGGCTCCCAATTTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCA	1920
Db	1871	AAATTTCCGCAAGAGGCTCCCAATTTCTCAGGCCAGTGTCTCAGCCCTGATTGAATCA	1930
QY	1921	GTCAATGGAAAAACAGTTACTTGGAACTACTCGAATAATGGAGAGGTGCTGATGCTACT	1980
Db	1931	GTCAATGGAAAAACAGTTACTTGGAACTACTCGAATAATGGAGAGGTGCTGATGCTACT	1990
QY	1981	AAGATGACGGTGTCTACTCAAGGTATTTCAACAATTTATGACACGAAATGCTAGATACAGT	2040
Db	1991	AAGATGACGGTGTCTACTCAAGGTATTTCAACAATTTATGACACGAAATGCTAGATACAGT	2050
QY	2041	GTAAAAAGTGGGGCTCTGGAGGAGTTAAGCGACGAGCGAGAGTGTATACCCAGCAG	2100
Db	2051	GTAAAAAGTGGGGCTCTGGAGGAGTTAAGCGACGAGCGAGAGTGTATACCCAGCAG	2110
QY	2101	AGTGGAGCACTGTACATACCTGCTGATGAGATGAGTGAATGAAATCAATGGAATCCACCA	2160
Db	2111	AGTGGAGCACTGTACATACCTGCTGATGAGATGAGTGAATGAAATCAATGGAATCCACCA	2170
QY	2161	AGACCTGAAATTAATAAGGATGATGTTCAACAAGCAAGTGTGTTTCAAGCAGAAATCC	2220
Db	2171	AGACCTGAAATTAATAAGGATGATGTTCAACAAGCAAGTGTGTTTCAAGCAGAAATCC	2230
QY	2221	TCGGGAGGCTCAATTTGTGCTTCTGATGTTCCAAATGCTCCCATACCTGATCTTTCCCA	2280
Db	2231	TCGGGAGGCTCAATTTGTGCTTCTGATGTTCCAAATGCTCCCATACCTGATCTTTCCCA	2290
QY	2281	CCTGSCCAAAATCACCGACTGAGGCGGAAATTCAGGGGCGAGTCTCAATTAATCTGACT	2340
Db	2291	CCTGSCCAAAATCACCGACTGAGGCGGAAATTCAGGGGCGAGTCTCAATTAATCTGACT	2350
QY	2341	TGGACAGCTCTCTGGGATGATTTATGACCATGAAACAGCTCAACAGTATATCATTCGAATA	2400
Db	2351	TGGACAGCTCTCTGGGATGATTTATGACCATGAAACAGCTCAACAGTATATCATTCGAATA	2410
QY	2401	AGTACAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT	2460
Db	2411	AGTACAGTATTTCTTGATCTCAGAGACAAAGTTCAATGAATCTCTTCAAGTGAATACTACT	2470
QY	2461	GCTCTCATCCCAAGGAGGACCACTCTGAGGAGCTTTTTGTTTAAACAGGAAACATTT	2520
Db	2471	GCTCTCATCCCAAGGAGGACCACTCTGAGGAGCTTTTTGTTTAAACAGGAAACATTT	2530
QY	2521	ACTTTGAAAAATGGCACAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTCCATCTG	2580
Db	2531	ACTTTGAAAAATGGCACAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTCCATCTG	2590
QY	2581	AAATCAGAAATATCCAACTTGCAGAGTATCTTTGTTTATTCCTTCCACAGACTCCGCCA	2640
Db	2591	AAATCAGAAATATCCAACTTGCAGAGTATCTTTGTTTATTCCTTCCACAGACTCCGCCA	2650
QY	2641	GAGACACTAGTCTCTGATGAAACGCTGCTCTCTCTATATTTATATCAACAGCACC	2700
Db	2651	GAGACACTAGTCTCTGATGAAACGCTGCTCTCTCTATATTTATATCAACAGCACC	2710
QY	2701	ATTCTGGCATTCATTTTTAAAAATTTATGGAAGTGGATAGGAACTGCACTGTCA	2760
Db	2711	ATTCTGGCATTCATTTTTAAAAATTTATGGAAGTGGATAGGAACTGCACTGTCA	2770
QY	2761	ATAGCTTAGGGCTGAATTTTGTGAGATAAATAAATCAATTCATCTCTTTTTTTGA	2820
Db	2771	ATAGCTTAGGGCTGAATTTTGTGAGATAAATAAATCAATTCATCTCTTTTTTTGA	2830
QY	2821	TTATAAATTTTCTAAATGCTATTTTAGACTTCTCTGAGGGGCGATATCTAAATGTAT	2880
Db	2831	TTATAAATTTTCTAAATGCTATTTTAGACTTCTCTGAGGGGCGATATCTAAATGTAT	2890
QY	2881	ATAGTACATTTATCTAAATGCTATTTCTGAGGGGCGATATCTAAATGTATTTAGAC	2940
Db	2891	ATAGTACATTTATCTAAATGCTATTTCTGAGGGGCGATATCTAAATGTATTTAGAC	2950
QY	2941	TTCTGTAGGGGCGATATAAATAAATGCTTAAACAACTGGGTA	2983

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Db      2951 TTCCTGTAGGGGGCGGATATAAATAAATGCTAAACAACTGGGTA 2993
|||||
RESULT 5
US-10-055-412B-27
; Sequence 27, Application US/10055412B
; Publication No. US20030059861A1
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10/055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 27
; LENGTH: 3007
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-055-412B-27

Query Match      99.6%; Score 2971.8; DB 14; Length 3007;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2976; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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Db      23  GGAATCAGAGGAGATGTACAGCAATGGGCCAATTAAGAGTCTGTGTTCACTTGTATT 82
QY      61  CTTCACTTCTAGAGGGGCCCTGAGTAATCTCACTCAATCAGCTGAGCAACAACATGGCTAT 120
Db      83  CTTCACTTCTAGAGGGGCCCTGAGTAATCTCACTCAATCAGCTGAGCAACAACATGGCTAT 142
QY     121  GAAGGCATTTGCTTGCAATTCGACCCCAATGTGCCAGAGATGAACACTCAATTCACAA 180
Db     143  GAAGGCATTTGCTTGCAATTCGACCCCAATGTGCCAGAGATGAACACTCAATTCACAA 202
QY     181  ATAAAGGACATGTGTACCCAGGATCTGTATCTGTTGAAGCTACAGGAGAGGATTT 240
Db     203  ATAAAGGACATGTGTACCCAGGATCTGTATCTGTTGAAGCTACAGGAGAGGATTT 262
QY     241  TATTTCAAAATGTTGCCATTTTATTCTCTGAACATGGAAGCAAAAGGCTGACTATGTG 300
Db     263  TATTTCAAAATGTTGCCATTTTATTCTCTGAACATGGAAGCAAAAGGCTGACTATGTG 322
QY     301  AGACCAAACTTGAGACCTTCAAAAATGCTGTATGTTCTGTTGTTGTTGTTGTTGTTGTT 360
Db     323  AGACCAAACTTGAGACCTTCAAAAATGCTGTATGTTCTGTTGTTGTTGTTGTTGTTGTT 382
QY     361  GGTAAATGATGAACCTTACATGAGCAGATGGCAACTGTGGAGAGAGGTTGAAGGATC 420
Db     383  GGTAAATGATGAACCTTACATGAGCAGATGGCAACTGTGGAGAGAGGTTGAAGGATC 442
QY     421  CACCTCACTCTGATTTTCAATGAGGAAAAAGTTAGCTGAATATGGACCAACAGGTAGG 480
Db     443  CACCTCACTCTGATTTTCAATGAGGAAAAAGTTAGCTGAATATGGACCAACAGGTAGG 502
QY     481  GCATTTGTCATGAGTGGGTCTACTAGGATGGGAGTATTTGACGAGTACAAATATGAT 540
Db     503  GCATTTGTCATGAGTGGGTCTACTAGGATGGGAGTATTTGACGAGTACAAATATGAT 562
QY     541  GAGAAATTTCTATTATCCAATGGAAGATACAAAGCAGTAAGATCTTCAGCAGGTATTACT 600
Db     563  GAGAAATTTCTATTATCCAATGGAAGATACAAAGCAGTAAGATCTTCAGCAGGTATTACT 622
QY     601  GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTACACCAAAAGATGACATTC 660
Db     623  GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTTACACCAAAAGATGACATTC 682

QY      661  AATAAGTTAACAGGACTCTATGAAAAAGAGTGTGAGTTTGTCTTCCAAATCCCGCAGACG 720
Db      683  AATAAGTTAACAGGACTCTATGAAAAAGAGTGTGAGTTTGTCTTCCAAATCCCGCAGACG 742
QY      721  GAGAAGGCTTCTATAATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAAA 780
Db      743  GAGAAGGCTTCTATAATGTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAAA 802
QY      781  CAAAACCAACAAGAGCTCCAAACAGCAAAATCAAAATCAAAATCAAAATCAAAATCAAA 840
Db      803  CAAAACCAACAAGAGCTCCAAACAGCAAAATCAAAATCAAAATCAAAATCAAAATCAAA 862
QY      841  TGGGAAGTGATCCGTTGATTCTGAGGACTTTTAAGAAAAACCACTCTTATGACAAACAGCA 900
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QY      901  CAAAATCCCACTTCTCATTTGTCAGATTGGAGCAAAAGAAATTTGTGTGTTAGTCTTGCAC 960
Db      923  CAAAATCCCACTTCTCATTTGTCAGATTGGAGCAAAAGAAATTTGTGTGTTAGTCTTGCAC 982
QY     961  AAATCTGGAAGCATGGGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT 1020
Db     983  AAATCTGGAAGCATGGGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTT 1042
QY    1021  TTCTCTGTCGACAGACTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGCT 1080
Db    1043  TTCTCTGTCGACAGACTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGCT 1102
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Db    1103  GCCCATGTACAAAAGTGAATCATAGATAAACAAGTGGAGTGAAGGAGGACACTCGCC 1162
QY    1141  AAAAGATTAACCTGCAGCAGCTTCAGAGGAGCTCCATCTGAGCGGGCTTGATCGGCA 1200
Db    1163  AAAAGATTAACCTGCAGCAGCTTCAGAGGAGGAGCTCCATCTGAGCGGGCTTGATCGGCA 1222
QY    1201  TTTACTGTGATTAGGAAGAAATATCCAATGATGATCTGAAATTTGTGTGTGTGACGAT 1260
Db    1223  TTTACTGTGATTAGGAAGAAATATCCAATGATGATCTGAAATTTGTGTGTGTGACGAT 1282
QY    1261  GGGGAAGACAACAATATAAGTGGGCTTTTAAAGAGTCAAAACAAGTGGTGCCATCATC 1320
Db    1283  GGGGAAGACAACAATATAAGTGGGCTTTTAAAGAGTCAAAACAAGTGGTGCCATCATC 1342
QY    1321  CACACAGTGGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGTGTCCAAATATGACA 1380
Db    1343  CACACAGTGGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGTGTCCAAATATGACA 1402
QY    1381  GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGAGTGTCCATTTT 1440
Db    1403  GGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAAGAACTAGAGAGTGTCCATTTT 1462
QY    1441  GGGGGCTTTTCAATGAGAAATGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500
Db    1463  GGGGGCTTTTCAATGAGAAATGAGTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1522
QY    1501  GGATTAACCTCCAGAACAGCAGTGGATGAATGGCAGCAGTGTCTGAGGAGCAGCAGCTG 1560
Db    1523  GGATTAACCTCCAGAACAGCAGTGGATGAATGGCAGCAGTGTCTGAGGAGCAGCAGCTG 1582
QY    1561  GGAAGGACACTTTGTTTCTTATCCTGGACAAACGAGCCTCCCAAAATCTTCTCTGG 1620
Db    1583  GGAAGGACACTTTGTTTCTTATCCTGGACAAACGAGCCTCCCAAAATCTTCTCTGG 1642
QY    1621  GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAACACCAAAATGAGCTTAC 1680
Db    1643  GATCCAGTGGACAGAAAGTGGCTTTGTAGTGGACAAACACCAAAATGAGCTTAC 1702
QY    1681  CTCCAATCCAGCAGCTTGTAGGTTGGCACTTGGAAATATACAGTCTGCAAGCAAGCTCA 1740
Db    1703  CTCCAATCCAGCAGCTTGTAGGTTGGCACTTGGAAATATACAGTCTGCAAGCAAGCTCA 1762
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QY	1741	C A A A C T T G A C C C T G A C T G T C A C G T C C G G T C C A A T G C T A C C T G C C T C C A A T T A C A	1801
Db	1763	C A A A C T T G A C C C T G A C T G T C A C G T C C G G T C C A A T G C T A C C T G C C T C C A A T T A C A	1822
QY	1801	G T G A C T T C C A A A C G N A C M A G G A C A C R A G C A A A T T C C C A G C C C T C T G S T A G T T T A T G C A	1860
Db	1823	G T G A C T T C C A A A C G N A C M A G G A C A C C A G C A A A T T C C C A G C C C T C T G S T A G T T T A T G C A	1882
QY	1861	A A T A T T C G G C C A A G G A G C C T C C C C A A T T C T C A G G G C C A G T G F C A G A C C C T G A T T G A A T C A	1920
Db	1883	A A T A T T C G C C A A G A G C C T C C C C A A T T C T C A G G G C C A G T G F C A G A C C C T G A T T G A A T C A	1942
QY	1921	G T G A A T G G A A A A A C A G T T A C C T T G G A A C T A C T T G G A A T A T G A G C A G T G T G T A T G C T A C T	1980
Db	1943	G T G A A T G G A A A A A C A G T T A C C T T G G A A C T A C T T G G A A T A T G A G C A G T G T G T A T G C T A C T	2002
QY	1981	A A G G A T A G C G T G T C T A C T C A A G T A T T T C A A A C T T A T G C A C A A T G S T A G A T A C A G T	2040
Db	2003	A A G G A T A G C G T G T C T A C T C A A G T A T T T C A A A C T T A T G C A C A A T G S T A G A T A C A G T	2062
QY	2041	G T A A A G T C G G G G T C T G G G A G A G T T A A C G C A G C A G A C G S A G A G T A T A C C C A G C A G	2100
Db	2063	G T A A A G T C G G G G T C T G G G A G A G T T A A C G A C C A G A C G S A G A G T A T A C C C C A G C A G	2122
QY	2101	A G T G A G A C A C T G T A C A T A C T T G G C T G A T T A G A A A T G A T G A A A T A C A A T G G A A T C C A C C A	2160
Db	2123	A G T G A G A C A C T G T A C A T A C C T G G C T G A T T A G A A T G A T G A A A T A C A A T G G A A T C C A C C A	2182
QY	2161	A G A C T G A A A T T A A T A A G A T G A T T C A C A C A A G C A A G T G T T T C A G C A G A A C A T C C	2220
Db	2183	A G A C T G A A A T T A A T A A G A T G A T T C A C A C A A G C A A G T G T T T T C A G C A G A A C A T C C	2242
QY	2221	T C G G A G G C T A T T T G T G G C T T C T G A T G T C C C A A A T G T C C C A T A C C T G A T C T T C T C C A	2280
Db	2243	T C G G A G G C T A T T T G T G G C T T C T G A T G T C C C A A T G T C C C A T A C C T G A T C T T T C C A	2302
QY	2281	C C T G G C C A A A T C A C C G A C C T G A A G G C G A A A T T C A C G G G G C A G T C T A T T A A T C T G A C T	2340
Db	2303	C C T G G C C A A A T C A C C G A C C T G A A G G G G A A A T T C A C G G G G C A G T C T C A T T A A T C T G A C T	2362
QY	2341	T G G A C A C T C C T G G G A T G A T T A T G A C C A T G G A A C A G C T C A A G T A W A T C A T T C G A A T A	2400
Db	2363	T G H A C A C T C C T G G G A T G A T T A T G A C C A T G G A A C A G C T C A A A G T A T A T C A T T C G A A T A	2422
QY	2401	A G T A C A A G T A T T C T G A T C T C A G A G A C A G T T C A A T G A A T C T C T T C C A G T G A T A C T A C T	2460
Db	2423	A G T A C A A G T A T T C T G A T C T C A G A G A C A G T T C A A T G A A T C T T C A A G T G A A T A C T A C T	2482
QY	2461	G C T C T A T C C C A A G A A G C C A A C T C T G A G G A A G T C T T T T G T T T A A A C C A G A A A A C A T T	2520
Db	2483	G C T C T A T C C C A A G A A G C C A A C T C T G A G G A A G T C T T T T G T T T A A A C C A G A A A A C A T T	2542
QY	2521	A C T T T T G A A A A T G G C A C A G A T C T T T T C A T G C T A T T C A G C C T G T T G A T A A G T C G A T C T G	2580
Db	2543	A C T T T T G A A A A T G G C A C A G A T C T T T T C A T G C T A T T C A G C C T G T T G A T A A G T C G A T C T G	2602
QY	2581	A A A T C A A A A T P C C A A C A A T G C A C A G A T A T C T T T G T T A T T C C T C C A C A G A C T C C G C C A	2640
Db	2603	A A A T C A G A A A T P C C A A A T T G C A G A G T A T C T T T G T T A T T C C T C C A C A G A C T C C G C C A	2662
QY	2641	G A G A C A C C T A G T C C T G A T G A A A C G T C G C T C T G C T C C T A A T T A T T C A T A C A A C A G C A C C	2700
Db	2663	G A G A C A C C T A G T C C T G A T G A A A C G T C G C T C T G C T C C T A A T T A T T C A T A C A A C A G C A C C	2722
QY	2701	A T T C C T G G C A T T C A C A T T T T A A A A T T A T G T G A A G T G G A T A G G A A C T C G A C T G T C A	2760
Db	2723	A T T C C T G G C A T T C A C A T T T T A A A A T T A T G T G G A A G T G G A T A G G A G A A C T C G A C T G T C A	2782
QY	2761	A T A G C C T A G G C T G A A T T T T T G C T C A G A T A A A T A A A A T A A A T C A T T C A T C C T T T T T T T G A	2820
Db	2783	A T A G C C T A G G C T G A A T T T T T G C T C A G A T A A A T A A A A T A A A T C A T T C A T C C T T T T T T T G A	2842
QY	2821	T T A T A A A A T T T T C A A A T G T A T T T T A G A C T T C C T G T A G G G G C G A T A T A C T A A A T G T A T	2880

RESULT 6

US-09-922-217-1056

Sequence 1056, Application US/09922217

; Patent No. US20020076414A1

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

APPLICANT: Benson, Darin R.

APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Tongtong

APPLICANT: Jiang, Yuqiu

APPLICANT: Smith, Carole Lynn

APPLICANT: King, Gordon E.

APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.  
: TITLE OF INVENTION: COMPONENTS TO

7. TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS

FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121 471C13

FILE REFERENCE: 210121.4/IC13  
CURRENT APPLICATION NUMBER: 11

SECURITY CLASSIFICATION NUMBER: US/09/922,217  
CURRENT FILING DATE: 2001-08-03

; CURRENT FILING DATE: 2001  
; NUMBER OF SEQ ID NOS: 1124

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 1056

; LENGTH: 3311

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-922-217-1056

Query Match

Best Local Similarity 99.9%: Pred No 0: 55.4%: SCORE 2966.2

Matches 2979; Conservative

1 GAAATCACAGGGAGATGTACAGCAATGCGGCCCTTTTACACCTTCCTCCTCCCTCTT

1 GTTTCGACGGGAGATGACAGCAATGGGCGATTAAGAGTTCGTGTTCACTTGATT 60

328 GGAATCACAGGGAGATGTACAGCAATGGGCCATTAAAGAGTTCTGTGTTTCATCTTGATT 387

61 CTTCACCTTCTAGAAAGGGCCCTTGACGTAATTCACTCCTTTCCATCATC

388

388 CTTCACCTTCAGAAAGGGCCCCTGAGTAATTCACTCATTCACTGAAACAATGGCTAT 447

121 GAAGGCATGTGCTGCAATCGACCCCAATGTGCCAGAGATGAACACTCATCAACA 180

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181 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATT 240

508 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTT 567

[illegible][illegible]

568 TATTCAAAATGTTGCCATTTTGATTCCTGAACATGGAAGACAAAGGCTGACTATGTG 627

Qy	421	CACCTCACTCTGATTTTCATTGACGAGAAAAGTTAGTGTGAATATGACCAACAAGGTAGG	480	Qy	1501	GGATTAACCCCTCCAGAAACAGCCAGTGGATGAATGGCAAGTGTGCGGACAGCACCGTG	1560
Db	748	CACCTCACTCTGATTTTCATTGACGAGAAAAGTTAGTGTGAATATGACCAACAAGGTAGG	807	Db	1828	GGATTAACCCCTCCAGAAACAGCCAGTGGATGAATGGCAAGTGTGCGGACAGCACCGTG	1887
Qy	481	GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT	540	Qy	1561	GGAAAGGACACTTTGTTTCTTATCACCCTGACAGGAGCTCCGCAATCCTTCTCTGG	1620
Db	808	GCATTTGTCATGATGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATAATGAT	867	Db	1888	GGAAAGGACACTTTGTTTCTTATCACCCTGACAGGAGCTCCGCAATCCTTCTCTGG	1947
Qy	541	GAGAAATCTACTTATCCAAATGGAAGATACAAGCAGTAAGATGTTTACAGAGGTATTACT	600	Qy	1621	GATCCCACTGACAGAGAGGAGTGGCTTTCTAGTGGCAAAACACCAAAATGSCCTTAC	1680
Db	868	GAGAAATCTACTTATCCAAATGGAAGATACAAGCAGTAAGATGTTTACAGAGGTATTACT	927	Db	1948	GATCCCACTGACAGAGAGGAGTGGCTTTCTAGTGGCAAAACACCAAAATGSCCTTAC	2007
Qy	601	GGTACAAATGATGTAAGAGTGTACAGGAGGAGCTGTATACACAAAGATGCAATTC	660	Qy	1681	CTCCAAATCCCAAGGCAITTTGCTTAAAGTTGGCACTTTGAAATACAGTCTCAAGCAAGCTCA	1740
Db	928	GGTACAAATGATGTAAGAGTGTACAGGAGGAGCTGTATACACAAAGATGCAATTC	987	Db	2008	CTCCAAATCCCAAGGCAITTTGCTTAAAGTTGGCACTTTGAAATACAGTCTCAAGCAAGCTCA	2067
Qy	661	AATAAGTAAACAGGACTCTATGAAAGAGTGTAGTGTGTTCTCCAAATCCCGCCAGAGG	720	Qy	1741	CAAACTTTGACCTGTGACTGTCAAGTCCCGTGGTCCCAATGCTACCTCCCTCCCAATTACA	1800
Db	988	AATAAGTAAACAGGACTCTATGAAAGAGTGTAGTGTGTTCTCCAAATCCCGCCAGAGG	1047	Db	2068	CAAACTTTGACCTGTGACTGTCAAGTCCCGTGGTCCCAATGCTACCTCCCTCCCAATTACA	2127
Qy	721	GAGAGGCTTCTATATGTTTGCACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780	Qy	1801	GTGACTTCCAAAACGAAACAGACACCAAGCAAAATCCCGAGCCCTTCTGGTAGTTTATGCA	1860
Db	1048	GAGAGGCTTCTATATGTTTGCACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	1107	Db	2128	GTGACTTCCAAAACGAAACAGACACCAAGCAAAATCCCGAGCCCTTCTGGTAGTTTATGCA	2187
Qy	781	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGGACCA	840	Qy	1861	AATATTCGCAAGGAGCCCTCCCAATTTCTAGGGCAGTGTCAAGCCCTGTGATGAATCA	1920
Db	1108	CAAAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATCTCCGAGGACCA	1167	Db	2188	AATATTCGCAAGGAGCCCTCCCAATTTCTAGGGCAGTGTCAAGCCCTGTGATGAATCA	2247
Qy	841	TGGGAAGTATCGGTGATTTCTGAGACTTTAGAAACCACTCTTATGACCAACAGCCA	900	Qy	1921	GTGAATGGAATAAGTTACCTTGGAATCTAGTGAATGAGGAGGAGTGTGATGCTACT	1980
Db	1168	TGGGAAGTATCGGTGATTTCTGAGACTTTAGAAACCACTCTTATGACCAACAGCCA	1227	Db	2248	GTGAATGGAATAAGTTACCTTGGAATCTAGTGAATGAGGAGGAGTGTGATGCTACT	2307
Qy	901	CAAAATCCCACTTCTCATTTGTCAGATTTGACCAAGAAATTTGTGTTTGTAGTCTTGAC	960	Qy	1981	AGGATGAGGCTGTCTACTCAAGTATTTCAAACTTATGACCAAGAAATGGAATGATCACT	2040
Db	1228	CAAAATCCCACTTCTCATTTGTCAGATTTGACCAAGAAATTTGTGTTTGTAGTCTTGAC	1287	Db	2308	AGGATGAGGCTGTCTACTCAAGTATTTCAAACTTATGACCAAGAAATGGAATGATCACT	2367
Qy	961	AAATCTGGAAGCATGCGACTGTGTAAACCGCTCAATCGACTGAATCAAGCAGCCAGCTT	1020	Qy	2041	GTAAAGTGCAGGCTCTGGGAGGAGTTAAACGAGCAGACGAGAGTGTATCCCAAGCAG	2100
Db	1288	AAATCTGGAAGCATGCGACTGTGTAAACCGCTCAATCGACTGAATCAAGCAGCCAGCTT	1347	Db	2368	GTAAAGTGCAGGCTCTGGGAGGAGTTAAACGAGCAGACGAGAGTGTATCCCAAGCAG	2427
Qy	1021	TTCTCTGTCAGACAGTGTGAGTGGGCTCTGGTGGGATGATGATTTGACATTTGACAGTGT	1080	Qy	2101	AGTGAGGACTGTACATACCTGGCTGGATTTGAGATGATGAATACAAATGGAATCCACCA	2160
Db	1348	TTCTCTGTCAGACAGTGTGAGTGGGCTCTGGTGGGATGATGATTTGACATTTGACAGTGT	1407	Db	2428	AGTGAGGACTGTACATACCTGGCTGGATTTGAGATGATGAATACAAATGGAATCCACCA	2487
Qy	1081	GCCCATGTACAAAGTGAACCTACACAGATAAAGAGTGGCAGTGCACAGGAGACACATCGCC	1140	Qy	2161	AGACCTGAAATTAATAAGGATGATTTCAACCAAGCAAGTGTGTTTTCAGCAAGCAATCC	2220
Db	1408	GCCCATGTACAAAGTGAACCTACACAGATAAAGAGTGGCAGTGCACAGGAGACACATCGCC	1467	Db	2488	AGACCTGAAATTAATAAGGATGATTTCAACCAAGCAAGTGTGTTTTCAGCAAGCAATCC	2547
Qy	1141	AAAAGATTAACCTGACAGCTTCAGGAGGAGCTGCATCTGACGCGGCTTCGATCGGCA	1200	Qy	2221	TCGGGAGGCTCAITTTGTGGCTTCTGATGTCGCAATGCTCCCATGCTGATCTTCCCA	2280
Db	1468	AAAAGATTAACCTGACAGCTTCAGGAGGAGCTGCATCTGACGCGGCTTCGATCGGCA	1527	Db	2548	TCGGGAGGCTCAITTTGTGGCTTCTGATGTCGCAATGCTCCCATGCTGATCTTCCCA	2607
Qy	1201	TTTACTGTGATTAAGGAAGAAATCAACCTGATGATCTGAAATTTGTGCTGCTGACGGAT	1260	Qy	2281	CCTGGCCAAATCACCCACCTGAGGCGGAAATTCAGGGGCGAGTCTCATTAATCTGACT	2340
Db	1528	TTTACTGTGATTAAGGAAGAAATCAACCTGATGATCTGAAATTTGTGCTGCTGACGGAT	1587	Db	2608	CCTGGCCAAATCACCCACCTGAGGCGGAAATTCAGGGGCGAGTCTCATTAATCTGACT	2667
Qy	1261	GGGGAAGACAACTATTAAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGCGCATATC	1320	Qy	2341	TGACAGCTCTCTGGGATGATTTATGACCAATGGAACAGCTCACAAGTATATCATTCGAATA	2400
Db	1588	GGGGAAGACAACTATTAAGTGGGTGCTTTAACGAGGTCAAAACAAAGTGTGCGCATATC	1647	Db	2668	TGACAGCTCTCTGGGATGATTTATGACCAATGGAACAGCTCACAAGTATATCATTCGAATA	2727
Qy	1321	CACAGTGTGTTGGGCGCTCTGACGCTCAAGAACTAGAGGAGTGTCCAAATGACA	1380	Qy	2401	AGTACAAAGTATCTTGTATCTCAGAGCAAGTTCATGAATCTCTCAAGTGAATACTACT	2460
Db	1648	CACAGTGTGTTGGGCGCTCTGACGCTCAAGAACTAGAGGAGTGTCCAAATGACA	1707	Db	2728	AGTACAAAGTATCTTGTATCTCAGAGCAAGTTCATGAATCTCTCAAGTGAATACTACT	2787
Qy	1381	GGAGTTTACAGACATATGTTTCAAGTCAAGTTCAGAACTAGGAGTGTCCAAATGACA	1440	Qy	2461	GCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAAACATT	2520
Db	1708	GGAGTTTACAGACATATGTTTCAAGTCAAGTTCAGAACTAGGAGTGTCCAAATGACA	1767	Db	2788	GCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAAAACATT	2847
Qy	1441	GGGCGCCCTTTCATCAGGAAATGAGAGTGTCTCTCAGGCGCTCCATCCAGCTTGAGAGTAAG	1500	Qy	2521	ACTTTTGAAATGGAACAGATCTTTTTCATTTGCTATTCCAGGCTGTGTGATAGGTCGATCTG	2580
Db	1768	GGGCGCCCTTTCATCAGGAAATGAGAGTGTCTCTCAGGCGCTCCATCCAGCTTGAGAGTAAG	1827	Db	2848	ACTTTTGAAATGGAACAGATCTTTTTCATTTGCTATTCCAGGCTGTGTGATAGGTCGATCTG	2907
Qy				Qy	2581	AAATCAAGAAATATCCAAACATTGACAGAGTATCTTTGTTTATCTCTCCACAGACTCCGCCA	2640





1381 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTTCAGACAAATGGCTTCATTGATGCTTTT 1440  
1708 GGAGGTTTACAGACATATGCTTTCAGATCAAGTTTTCAGACAAATGGCTTCATTGATGCTTTT 1767  
1441 GGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCCATCCAGCTTTCAGAGTAAG 1500  
1768 GGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCCATCCAGCTTTCAGAGTAAG 1827  
1501 GGATTAAACCTCCAGAACAGCAGTGGATGAATGGACACAGTGAATCGTGGACAGACCGGTG 1560  
1828 GGATTAAACCTCCAGAACAGCAGTGGATGAATGGACACAGTGAATCGTGGACAGACCGGTG 1887  
1561 GGAAGGACACTTTGTTTCTTATCAGCTGGACAAAGCGAGCTCCCAATCTCTCTGG 1620  
1888 GGAAGGACACTTTGTTTCTTATCAGCTGGACAAAGCGAGCTCCCAATCTCTCTGG 1947  
1621 GATCCAGTGGACAGACAGAGTGGCTTTGTAGTGGACAAATCCCAAAATGGCCTAC 1680  
1948 GATCCAGTGGACAGACAGAGTGGCTTTGTAGTGGACAAATCCCAAAATGGCCTAC 2007  
1681 CTCCAAATCCAGGCAATGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 1740  
2008 CTCCAAATCCAGGCAATGCTAAGTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA 2067  
1741 CAAACCTTGACCTGACTGTACGCTCCGCTGGTCCAAATGCTACCTGCTCCCAATTACA 1800  
2068 CAAACCTTGACCTGACTGTACGCTCCGCTGGTCCAAATGCTACCTGCTCCCAATTACA 2127  
1801 GTGACTTCCAAACAGCAAGACACAGCAATCCCAAGCTCTGGTAGTTTATGCA 1860  
2128 GTGACTTCCAAACAGCAAGACACAGCAATCCCAAGCTCTGGTAGTTTATGCA 2187  
1861 AATATTGCGCAAGAGGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTGAATCA 1920  
2188 AATATTGCGCAAGAGGCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATTGAATCA 2247  
1921 GTGAATGGAAAACAGTACTGGAATCTGGAATTAATGGACAGTGTGATGCTACT 1980  
2248 GTGAATGGAAAACAGTACTGGAATCTGGAATTAATGGACAGTGTGATGCTACT 2307  
1981 AAGGATGACGGTCTCTACTCAAGTATTTTCAACACTTATGACAGCAATGGTAGATACAGT 2040  
2308 AAGGATGACGGTCTCTACTCAAGTATTTTCAACACTTATGACAGCAATGGTAGATACAGT 2367  
2041 GTAAAGTGGGGCTCTGGAGAGGATTAACGACAGCAGAGAGTGAATACCCAGCAG 2100  
2368 GTAAAGTGGGGCTCTGGAGAGGATTAACGACAGCAGAGAGTGAATACCCAGCAG 2427  
2101 AGTGGACACTGTACATACCTGCTGATTTGAGATGATGAATACAAATGGAATCCACCA 2160  
2428 AGTGGACACTGTACATACCTGCTGATTTGAGATGATGAATGGAATGGAATCCACCA 2487  
2161 AGACCTGAAATTAATAGGATGATTTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCC 2220  
2488 AGACCTGAAATTAATAGGATGATTTTCAACACAGCAAGTGTGTTTTCAGCAGAACATCC 2547  
2221 TCGGAGGCTCATTGTTGGCTTCGATGTCCCAATGCTCCATACCTGATCTTCCCA 2280  
2548 TCGGAGGCTCATTGTTGGCTTCGATGTCCCAATGCTCCATACCTGATCTTCCCA 2607  
2281 CCTGGCCAAATCAGGACCTGAAGCGGAATTCAGGGGCGAGTCTCATTAATCTGACT 2340  
2608 CCTGGCCAAATCAGGACCTGAAGCGGAATTCAGGGGCGAGTCTCATTAATCTGACT 2667  
2341 TGGACAGCTCTCTGGGGATGATTTATGACCATGGAACAGCTCAAGATATATCATTCGAATA 2400  
2668 TGGACAGCTCTCTGGGGATGATTTATGACCATGGAACAGCTCAAGATATATCATTCGAATA 2727  
2401 AGTCAAGATATCTTGTATCTCAGAGACAGTTCATGATCTCTCAAGTGAATACTACT 2460  
2728 AGTCAAGATATCTTGTATCTCAGAGACAGTTCATGATCTCTCAAGTGAATACTACT 2787  
2461 GCTCTCATCCCAAGAGGACCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAACATT 2520

2788 GCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAACATT 2847  
2521 ACTTTTGAATGACACAGATCTTTTCTATTCTAGGCTGTGTGATAAGTTCGATCTG 2580  
2848 ACTTTTGAATGACACAGATCTTTTCTATTCTAGGCTGTGTGATAAGTTCGATCTG 2907  
2581 AAATCAGAAATATCCAAATTCGACAGATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2640  
2908 AAATCAGAAATATCCAAATTCGACAGATCTTTTGTGTTTATTCCTCCACAGACTCCGCCA 2967  
2641 GAGACACCTAGTCTGATGAAACGCTCTCTCTGCTCTTAATATTCATATCAACAGCACC 2700  
2968 GAGACACCTAGTCTGATGAAACGCTCTCTCTGCTCTTAATATTCATATCAACAGCACC 3027  
2701 ATTCTGCGCATTCACATTTTAAATATTTGGAAGTGGATAGGAGAACTGCAGCTGTCA 2760  
3028 ATTCTGCGCATTCACATTTTAAATATTTGGAAGTGGATAGGAGAACTGCAGCTGTCA 3087  
2761 ATAGCTAGGGCTGAATTTTGTCAAGATAAAATAAAATCAATTCATCTTTTGTGA 2820  
3088 ATAGCTAGGGCTGAATTTTGTCAAGATAAAATAAAATCAATTCATCTTTTGTGA 3146  
2821 TTATAAAATTTTCTAAATGATTTTGTAGACTTCTCTAGGGGCGGATATACATAATGAT 2880  
3147 TTATAAAATTTTCTAAATGATTTTGTAGACTTCTCTAGGGGCGGATATACATAATGAT 3206  
2881 ATAGTACATTTTACTAAATGATTTTCTAGGGGCGGATATACATAATGATTTTAGAC 2940  
3207 ATAGTACATTTTACTAAATGATTTTCTAGGGGCGGATATACATAATGATTTTAGAC 3266  
2941 TTCTCTAGGGGCGGATATAAAATAAAATGCTAAACAACTCGGTA 2983  
3267 TTCTCTAGGGGCGGATATAAAATAAAATGCTAAACAACTCGGTA 3309

RESULT 8  
US-10-025-380-1056  
; Sequence 1056, Application US/10025380  
; Publication No. US20020182191A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Meagher, Madeleine Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Smith, Carole L.  
; APPLICANT: King, Gordon E.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Skeiky, Yasir A. W.  
; APPLICANT: Fanger, Gary R.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C14  
; CURRENT APPLICATION NUMBER: US/10/025,380  
; CURRENT FILING DATE: 2001-12-19  
; NUMBER OF SEQ ID NOS: 1129  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1056  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-025-380-1056

Query Match 99.4%; Score 2966.2; DB 13; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;



QY 1 GAAATCAGGGAGATGTACAGCAATGGGCCAATTAAAGATTCTGTGTTTCATCTTGATT 60  
Db 328 GGAATCAGGGAGATGTACAGCAATGGGCCAATTAAAGATTCTGTGTTTCATCTTGATT 387  
QY 61 CTTTCACCTTTAGAAAGGGGCCCTGAGTAATTCATCTCAATTCAGCTGAACAAATGGCTAT 120  
Db 388 CTTTCACCTTTAGAAAGGGGCCCTGAGTAATTCATCTCAATTCAGCTGAACAAATGGCTAT 447  
QY 121 GAAGGCATTTGCTGTTGCAATCGACCCCAATGTGCCAGAGATGAACAACTCAATTCACAA 180  
Db 448 GAAGGCATTTGCTGTTGCAATCGACCCCAATGTGCCAGAGATGAACAACTCAATTCACAA 507  
QY 181 ATAAAGCAGATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGTACAGGAAGCGGATTT 240  
Db 508 ATAAAGCAGATGTTGACCCAGGCATCTCTGTATCTGTTTGAAGTACAGGAAGCGGATTT 567  
QY 241 TATTTCAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAMAAGGCTGACTATGTG 300  
Db 568 TATTTCAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAMAAGGCTGACTATGTG 627  
QY 301 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGAGAGAGGGTGAAGGATC 420  
Db 628 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGAGAGAGGGTGAAGGATC 747  
QY 361 GGTAAATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATC 420  
Db 688 GGTAAATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAGGGTGAAGGATC 747  
QY 421 CACCTCAGCTCTGATTTTCAATGAGGAAAGTGTAGCTGAATATGAGCACCAGGTAGG 480  
Db 748 CACCTCAGCTCTGATTTTCAATGAGGAAAGTGTAGCTGAATATGAGCACCAGGTAGG 807  
QY 481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACAGGTACAAATATGAT 540  
Db 808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACAGGTACAAATATGAT 867  
QY 541 GAGAAATTTCTATTCCAATGGAAGATPACAGCAGTAAGATGTTTTCAGCAGGTATTACT 600  
Db 868 GAGAAATTTCTATTCCAATGGAAGATPACAGCAGTAAGATGTTTTCAGCAGGTATTACT 927  
QY 601 GGTACAAATGATGAAGAGTGTGAGGAGCAGCTGTATACCAAAAGATGCAATTC 660  
Db 928 GGTACAAATGATGAAGAGTGTGAGGAGCAGCTGTATACCAAAAGATGCAATTC 987  
QY 661 AATAAGTTAAGAGGACTCTATGAAAGAGTGTGAGTGTGTTCTCAATCCCGCAGAG 720  
Db 988 AATAAGTTAAGAGGACTCTATGAAAGAGTGTGAGTGTGTTCTCAATCCCGCAGAG 1047  
QY 721 GAGAAAGTCTTATTAATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
Db 1048 GAGAAAGTCTTATTAATGTTTGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
QY 781 CAABAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATTCCTCGAAGCA 840  
Db 1108 CAABAACCAACAAAGAGCTCCAAACAGCAAAATCAAAATGCAATTCCTCGAAGCA 1167  
QY 841 TGGAAAGTGTACCGTGTATCTGAGGACTTTAAGAAACCACTCCTATGACAAACAGCCA 900  
Db 1168 TGGAAAGTGTACCGTGTATCTGAGGACTTTAAGAAACCACTCCTATGACAAACAGCCA 1227  
QY 901 CCAATCCACCTTCTCATTTGCTGAGATTTGCAAAAGAAATGTTGTTTGTAGTCTTTCAC 960  
Db 1228 CCAATCCACCTTCTCATTTGCTGAGATTTGCAAAAGAAATGTTGTTTGTAGTCTTTCAC 1287  
QY 961 AAATCTGGAAGCATGGGATGTTGTAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTT 1020  
Db 1288 AAATCTGGAAGCATGGGATGTTGTAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTT 1347  
QY 1021 TTCCTGCTGACAGAGTGTAGCTGGGCTCCTGGGTTGGAGTGGTGAATTTGACAGTGTCT 1080  
Db 1348 TTCCTGCTGACAGAGTGTAGCTGGGCTCCTGGGTTGGAGTGGTGAATTTGACAGTGTCT 1407

QY 1081 GCCCATGTACAAAGTGAACATCATACAGATAAACAGTGGCACTGACAGGGACACACTCGCC 1140  
Db 1408 GCCCATGTACAAAGTGAACATCATACAGATAAACAGTGGCACTGACAGGGACACACTCGCC 1467  
QY 1141 AAAGATTTACTCTGAGCAGCTTTCAGGAGGAGCTTCATCTGACAGGGGCTTCGATCGCA 1200  
Db 1468 AAAGATTTACTCTGAGCAGCTTTCAGGAGGAGCTTCATCTGACAGGGGCTTCGATCGCA 1527  
QY 1201 TTATCTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTCAGCGAT 1260  
Db 1528 TTATCTGTGATTAGGAAGAAATATCCAACTGATGATCTGAAATTTGCTGCTCAGCGAT 1587  
QY 1261 GGGAGAGCAACATATATAGTGGTGTCTTAAACAGAGTCAAAACAAAGTGGTGCATCATC 1320  
Db 1588 GGGAGAGCAACATATATAGTGGTGTCTTAAACAGAGTCAAAACAAAGTGGTGCATCATC 1647  
QY 1321 CACACAGTCTGCTTTGGGGCCCTCTGAGCTCAAGACTAGAGAGTGTCCAAATAGCA 1380  
Db 1648 CACACAGTCTGCTTTGGGGCCCTCTGAGCTCAAGACTAGAGAGTGTCCAAATAGCA 1707  
QY 1381 GGAGGTTTACAGACATATGCTTCAAGTTCAGAACTCAAGTTCAGAACTCATTTGATGCTTT 1440  
Db 1708 GGAGGTTTACAGACATATGCTTCAAGTTCAGAACTCAAGTTCAGAACTCATTTGATGCTTT 1767  
QY 1441 GGGGCCCTTTTCATCAGGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500  
Db 1768 GGGGCCCTTTTCATCAGGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1827  
QY 1501 GGATTAACCTCCAGNACAGCCAGTGGATGAATGGCAGAGTGTGAGCAGCAGCCGTG 1560  
Db 1828 GGATTAACCTCCAGNACAGCCAGTGGATGAATGGCAGAGTGTGAGCAGCAGCCGTG 1887  
QY 1561 GGAAGGACACATTTGTTTCTATCACTGGAACAGCAGCTCCCAATCTTCTCTG 1620  
Db 1888 GGAAGGACACATTTGTTTCTATCACTGGAACAGCAGCTCCCAATCTTCTCTG 1947  
QY 1621 GATCCAGTGGACAGAAAGCTGGCTTTGAGTGGACAAACACCAAAATGGCTAC 1680  
Db 1948 GATCCAGTGGACAGAAAGCTGGCTTTGAGTGGACAAACACCAAAATGGCTAC 2007  
QY 1681 CTCCTCAATCCAGGCAATTTGCTAAGTGTGGCACTTGGAAATACAGTGTGCAAGCAAGCTCA 1740  
Db 2008 CTCCTCAATCCAGGCAATTTGCTAAGTGTGGCACTTGGAAATACAGTGTGCAAGCAAGCTCA 2067  
QY 1741 CAAACCTTGACCTGACTGTCACTGCTCCGCTGCTCCAAATGCTACCTGCTCCAAATTACA 1800  
Db 2068 CAAACCTTGACCTGACTGTCACTGCTCCGCTGCTCCAAATGCTACCTGCTCCAAATTACA 2127  
QY 1801 GTGACTTCCAAACAGAACAGGACACCAAGCAATTTCCCGAGCCCTCTGTAGTTATGCA 1860  
Db 2128 GTGACTTCCAAACAGAACAGGACACCAAGCAATTTCCCGAGCCCTCTGTAGTTATGCA 2187  
QY 1861 AATATTGCCAAGGAGCTCCCAATTTCTAGGGCAGTGTGACAGCCCTGATTTGAATCA 1920  
Db 2188 AATATTGCCAAGGAGCTCCCAATTTCTAGGGCAGTGTGACAGCCCTGATTTGAATCA 2247  
QY 1921 GTGAATGGAAACACAGTTTACCTTGGAACTACTGATTAATGAGCAGGCTGTGCTACT 1980  
Db 2248 GTGAATGGAAACACAGTTTACCTTGGAACTACTGATTAATGAGCAGGCTGTGCTACT 2307  
QY 1981 AAGGATGAGGCTGTCTACTCAAGGTAATTTCACTTATGACAGAAATGGTAGATACAGT 2040  
Db 2308 AAGGATGAGGCTGTCTACTCAAGGTAATTTCACTTATGACAGAAATGGTAGATACAGT 2367  
QY 2041 GTAAAGTGGGCTCTGGGAGAGGTTAAAGCAGCAGAGGAGTATACCCAGCAG 2100  
Db 2368 GTAAAGTGGGCTCTGGGAGAGGTTAAAGCAGCAGAGGAGTATACCCAGCAG 2427  
QY 2101 AGTGGAGCAGTGTACATACCTGCTGATTTGAGATGATGAAATACAAATGGAATCCACCA 2160  
Db 2428 AGTGGAGCAGTGTACATACCTGCTGATTTGAGATGATGAAATACAAATGGAATCCACCA 2487  
QY 2161 AGACCTGAAATTAAGGATGATGTTTCAACACAGCAAGTGTGTTTTCAGCAGAAACATCC 2220

i	ORGANISM: human
US-10-393-590-11	
Query Match	99.4%; Score 2966.2; DB 15; Length 3311;
Best Local Similarity	99.9%; Pred. No. 0;
Matches 2979; Conservative	0; Mismatches 3; Indels 1; Gaps 1;
Qy	1 GAAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCTCATCTTTGATT 60
Db	328 GGAATCACAGGGAGATGTACAGCAATGGGGCCATTTAAAGAGTTCTGTGTTCTCATCTTTGATT 387
Qy	61 CTTACCTTCTAGAAAGGGCCCTGAGTAATTCATCTATTGAGTGAACAAATGGCTAT 120
Db	388 CTTACCTTCTAGAAAGGGCCCTGAGTAATTCATCTATTGAGTGAACAAATGGCTAT 447
Qy	121 GAAGCATTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAACAACTCATTTCAACAA 180
Db	448 GAAGCATTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAACAACTCATTTCAACAA 507
Qy	181 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240
Db	508 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 567
Qy	241 TATTTCAAAATGTTGCCAATTTTGAATCTCTGAAACATGGAAGCAAGGCTGACTATG 300
Db	568 TATTTCAAAATGTTGCCAATTTTGAATCTCTGAAACATGGAAGCAAGGCTGACTATG 627
Qy	301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 360
Db	628 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCCA 687
Qy	361 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCACTGTGGAGAGAGGGTGAAGATC 420
Db	688 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCACTGTGGAGAGAGGGTGAAGATC 747
Qy	421 CACCTCACTCTGATTTTCAATGCGAGAAAAGTTAGCTCAATATCGACAGTACATAATGAT 480
Db	748 CACCTCACTCTGATTTTCAATGCGAGAAAAGTTAGCTCAATATCGACAGTACATAATGAT 807
Qy	481 GCATTTGTCAGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACATAATGAT 540
Db	808 GCATTTGTCAGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACATAATGAT 867
Qy	541 GAGAAATTTCTACTTTTCAATGGAAGAATAAAGCAGTAAAGTGTTCAGCAGGTATTACT 600
Db	868 GAGAAATTTCTACTTTTCAATGGAAGAATAAAGCAGTAAAGTGTTCAGCAGGTATTACT 927
Qy	601 GGTACAAATGTAGTAAGAAGTGTGAGGAGGAGTGTACACCAAAAGATGCACATTC 660
Db	928 GGTACAAATGTAGTAAGAAGTGTGAGGAGGAGTGTACACCAAAAGATGCACATTC 987
Qy	661 AATAAGTACAGGACTCTATGAAAAGGATGTGAGTGTCTCTCCAATCCCGCAGACG 720
Db	988 AATAAGTACAGGACTCTATGAAAAGGATGTGAGTGTCTCTCCAATCCCGCAGACG 1047
Qy	721 GAGAAAGCTTCTATAATGTTTGCAACAATGTTGATTTCTATGTTGATTTCTGTACAGAA 780
Db	1048 GAGAAAGCTTCTATAATGTTTGCAACAATGTTGATTTCTATGTTGATTTCTGTACAGAA 1107
Qy	781 CAAACCAACAAGAAAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGCACA 840
Db	1108 CAAACCAACAAGAAAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGCACA 1167
Qy	841 TGGGAAGTGTATCCGTGATTTCTGAGGACTTTTAAAGAAAACCACTCTCTATGACAAACAGCCA 900
Db	1168 TGGGAAGTGTATCCGTGATTTCTGAGGACTTTTAAAGAAAACCACTCTCTATGACAAACAGCCA 1227
Qy	901 CCAATCCCACTTCTCATGCTGCAGATGGGACAAAGATTTGTGTTTGTAGTCTCTGAC 960
Db	1228 CCAATCCCACTTCTCATGCTGCAGATGGGACAAAGATTTGTGTTTGTAGTCTCTGAC 1287
Qy	961 AAATCTGGAAGCATGGGAGCTGGTAAACCGCTCAATCGACTGAATCAAGAGCGGCAGCTT 1020
Db	2488 AGACCTGAAATTAATAGGATGATGTTCAACAGCAAGCAAGTGTTTTCAGCAGAACATCC 2547
Qy	2221 TCGGAGAGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCATACCTGATCTCTTCCCA 2280
Db	2548 TCGGAGAGCTCATTTGTGGCTTCTGATGTCCAAATGCTCCATACCTGATCTCTTCCCA 2607
Qy	2281 CTTGCCAAATCACCGACCTGAAGCGGAAATTTCAAGGGGCGAGTCTCATTAATCTGACT 2340
Db	2608 CTTGCCAAATCACCGACCTGAAGCGGAAATTTCAAGGGGCGAGTCTCATTAATCTGACT 2667
Qy	2341 TGGACAGCTCTCTGGGAGTATGATGACCATGGAACAGCTCACAAGTATATCATTTCGAATA 2400
Db	2668 TGGACAGCTCTCTGGGAGTATGATGACCATGGAACAGCTCACAAGTATATCATTTCGAATA 2727
Qy	2401 AGTCAAGTATCTTGATCTCAGACAGAAATTTCAAGTGAATCTCTTCAAGTGAATACTACT 2460
Db	2728 AGTCAAGTATCTTGATCTCAGACAGAAATTTCAAGTGAATCTCTTCAAGTGAATACTACT 2787
Qy	2461 GCTCTATCCCAAGAGGAGCCAACTCTGAGGAAGTCTTTTGTATAACCAAGAAAACATT 2520
Db	2788 GCTCTATCCCAAGAGGAGCCAACTCTGAGGAAGTCTTTTGTATAACCAAGAAAACATT 2847
Qy	2521 ACTTTTGAATGAGCACAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTTCGATCTG 2580
Db	2848 ACTTTTGAATGAGCACAGATCTTTTCAATGCTATTCAGGCTGTTGATAAGTTCGATCTG 2907
Qy	2581 AAATCAGAAATATCCACAGTTCGACAGGATCTTTTGTATTCCTCCACAGACTCCGCCA 2640
Db	2908 AAATCAGAAATATCCACAGTTCGACAGGATCTTTTGTATTCCTCCACAGACTCCGCCA 2967
Qy	2641 GAGACACTAGTCTGTAGTAAACGCTGCTCTCTGCTTGTCTTAATTCATATCAACAGCACC 2700
Db	2968 GAGACACTAGTCTGTAGTAAACGCTGCTCTCTGCTTGTCTTAATTCATATCAACAGCACC 3027
Qy	2701 ATTCTCTGGCAATCACATTTTAAAAATATGTTGGAAGTGATAGGAGAACTGCAGCTGTCA 2760
Db	3028 ATTCTCTGGCAATCACATTTTAAAAATATGTTGGAAGTGATAGGAGAACTGCAGCTGTCA 3087
Qy	2761 ATAGCTAGGCTGAATTTTGTGAGTAAATTAATAATTAATTAATTAATTAATTAATTTTGA 2820
Db	3088 ATAGCTAGGCTGAATTTTGTGAGTAAATTAATAATTAATTAATTAATTAATTTTGA 3146
Qy	2821 TTATAAAATTTCTAAAAATGATTTTATAGACTTCTCTGAGGGGCGATATACTAAATGTAT 2880
Db	3147 TTATAAAATTTCTAAAAATGATTTTATAGACTTCTCTGAGGGGCGATATACTAAATGTAT 3206
Qy	2881 ATAGTACATTTATCTAAATGATTTCTGAGGGGCGATATACTAAATGATTTTATAGAC 2940
Db	3207 ATAGTACATTTATCTAAATGATTTCTGAGGGGCGATATACTAAATGATTTTATAGAC 3266
Qy	2941 TTCTCTGAGGGGCGATATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATAATTAATA

RESULT 9  
US-10-393-590-11  
; Sequence 11, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA



PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.11  
; SEQ ID NO 12  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-12

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;  
1 GAAATCACAGGAGATGTACAGCAATGGGCCAATTAAGAGTCTGTGTTCACTTGTATT 60  
328 GGAATCACAGGAGATGTACAGCAATGGGCCAATTAAGAGTCTGTGTTCACTTGTATT 387  
61 CTTACCTTCTAGAAGGGCCCTGAGTAAATTCACCTCATTGCTGAAACAACAAATGGCTAT 120  
388 CTTACCTTCTAGAAGGGCCCTGAGTAAATTCACCTCATTGCTGAAACAACAAATGGCTAT 447  
121 GAAGCAATGTCGTTGCAATCGAACCCCAATGTGCCAGAGATGAACACACTCTCAACAA 180  
448 GAAGCAATGTCGTTGCAATCGAACCCCAATGTGCCAGAGATGAACACACTCTCAACAA 507  
181 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 240  
508 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTGTTTGAAGCTACAGGAAGCGATT 567  
241 TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAGGCTGACTATGTG 300  
568 TATTTCAAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAGGCTGACTATGTG 627  
301 AGACCAAAATCTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 360  
628 AGACCAAAATCTGAGACCTTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA 687  
361 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC 420  
688 GGTAAATGATGAACCCCTACACTGAGCAGATGGGCAACTGTGGAGAGAGGGTGAAGGATC 747  
421 CACCTCACTCTGATTTTCAATGAGGAAAGATGAGTGAATATGACCAAGGTAGG 480  
748 CACCTCACTCTGATTTTCAATGAGGAAAGATGAGTGAATATGACCAAGGTAGG 807  
481 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATATGAT 540  
808 GCATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACAATATGAT 867  
541 GAGAAATTTCTACTTATCCAAATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTATTACT 600  
868 GAGAAATTTCTACTTATCCAAATGGAAGATACAGCAGTAAAGTGTTCAGCAGGTATTACT 927  
601 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTACACCAAAAGATGCACATTC 660  
928 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGCTGTACACCAAAAGATGCACATTC 987  
661 AATAAAGTAAACAGGACTCTATGAAAAGAGTGTGAGTGTGTTCTTCCAAATCCCGCAGAG 720  
988 AATAAAGTAAACAGGACTCTATGAAAAGAGTGTGAGTGTGTTCTTCCAAATCCCGCAGAG 1047  
721 GAGAAGGCTTCTATAATGTTTGGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 780  
1048 GAGAAGGCTTCTATAATGTTTGGCAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAA 1107  
781 CAATAACACACAAAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGGACACA 840  
1108 CAATAACACACAAAGAGCTCCAAACAGCAAAATCAAAAATGCAATCTCCGAGGACACA 1167  
841 TGGGAAGTGTATCCGTTGATTTCTGAGGACTTTAAGAAAACCACTCTCTATGACAAACAGCCA 900  
1168 TGGGAAGTGTATCCGTTGATTTCTGAGGACTTTAAGAAAACCACTCTCTATGACAAACAGCCA 1227

901 CCAAAATCCACCTTCTCATTTGCTCAGATTGGACAAAGAAATGTGTGTTAGTCTTGAC 960  
1228 CCAAAATCCACCTTCTCATTTGCTCAGATTGGACAAAGAAATGTGTGTTAGTCTTGAC 1287  
961 AAATCTGGAAGCATGGGAGTGGTAAACGGCTCTAATCGACTGAATCAAGCAGGCGCAGCTT 1020  
1288 AAATCTGGAAGCATGGGAGTGGTAAACGGCTCTAATCGACTGAATCAAGCAGGCGCAGCTT 1347  
1021 TTCTGCTGTCAGACAGATTGAGCTGGGTCCTGGGTTGGGATGGTGACATTTTGACAGTGTCT 1080  
1348 TTCTGCTGTCAGACAGATTGAGCTGGGTCCTGGGTTGGGATGGTGACATTTTGACAGTGTCT 1407  
1081 GCCCATGTACAAAAGTGAATCTCATACAGATAAACAGTGGCAGTGAAGGAGACACACTCGCC 1140  
1408 GCCCATGTACAAAAGTGAATCTCATACAGATAAACAGTGGCAGTGAAGGAGACACACTCGCC 1467  
1141 AAAAGATTACCTGACAGAGCTTCAGGAGGAGCTCCATCTGACGGGCTTCGATCGGCA 1200  
1468 AAAAGATTACCTGACAGAGCTTCAGGAGGAGCTCCATCTGACGGGCTTCGATCGGCA 1527  
1201 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGTCGCGGAT 1260  
1528 TTTACTGTGATTAGGAAGAAATATCCAACTGATGGATCTGAAATTTGTGCTGTCGCGGAT 1587  
1261 GGGGAAGACAAACACTATTAAGTGGTGTCTTAACGAGGTCAAAACAAAGTGGTGGCATCATC 1320  
1588 GGGGAAGACAAACACTATTAAGTGGTGTCTTAACGAGGTCAAAACAAAGTGGTGGCATCATC 1647  
1321 CACACAGTGTCTTTGGGGCCCTCTGACGTCAAGAACTAGAGGAGCTGCCAAAATGACA 1380  
1648 CACACAGTGTCTTTGGGGCCCTCTGACGTCAAGAACTAGAGGAGCTGCCAAAATGACA 1707  
1381 GGAGGTTTACACACATATGCTTTCAGATCAAGTTTCAGAAACAATGGCCTCAATGATGCTTTT 1440  
1708 GGAGGTTTACACACATATGCTTTCAGATCAAGTTTCAGAAACAATGGCCTCAATGATGCTTTT 1767  
1441 GGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1500  
1768 GGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG 1827  
1501 GGATTAACCTCTCAGAAACAGCCAGTGGATGAAATGGCAGAGTATGCTGGACACACACCGTG 1560  
1828 GGATTAACCTCTCAGAAACAGCCAGTGGATGAAATGGCAGAGTATGCTGGACACACACCGTG 1887  
1561 GGAAGAGCACTTTGTTTCTTATCAGCTGCAACAGCAGCTCCCTCCAAATCCCTTCTCTGG 1620  
1888 GGAAGAGCACTTTGTTTCTTATCAGCTGCAACAGCAGCTCCCTCCAAATCCCTTCTCTGG 1947  
1621 GATCCCAGTGGACAGAAAGAGTGGGTTTGTAGTGGACAAACACCAAAATGGGCTTAC 1680  
1948 GATCCCAGTGGACAGAAAGAGTGGGTTTGTAGTGGACAAACACCAAAATGGGCTTAC 2007  
1681 CTCCAATCCAGGCAATTTGCTAAGGTTGGCAGTTGGAATATACAGTCTGCAAGCAAGCTCA 1740  
2008 CTCCAATCCAGGCAATTTGCTAAGGTTGGCAGTTGGAATATACAGTCTGCAAGCAAGCTCA 2067  
1741 CAAACCTTGACCTGACTGTCAAGTCCCGTGGCTGCAATGCTACCTGCTCCCAATTTACA 1800  
2068 CAAACCTTGACCTGACTGTCAAGTCCCGTGGCTGCAATGCTACCTGCTCCCAATTTACA 2127  
1801 GTGACTTCCAAAACGAAACAGGACACAGCAAAATTTCCCGGCTCTGGTGTATTATGCA 1860  
2128 GTGACTTCCAAAACGAAACAGGACACAGCAAAATTTCCCGGCTCTGGTGTATTATGCA 2187  
1861 AATATTCGCAAGGAGCTCCCAATTTCTCAGGSCAGTGTGACAGCCCTGATTGAATCA 1920  
2188 AATATTCGCAAGGAGCTCCCAATTTCTCAGGSCAGTGTGACAGCCCTGATTGAATCA 2247  
1921 GTGAATGGAAAAACAGTTTACCTTGGAACTACTTGGATAATGAGCAGGTGCTGATGCTACT 1980  
2248 GTGAATGGAAAAACAGTTTACCTTGGAACTACTTGGATAATGAGCAGGTGCTGATGCTACT 2307  
1981 AAGGATGACGGTGTCTACTCAAGGTAATTTCAACATTTATGACACGAATGGTAGATACAGT 2040



Db	1108	CAAAACCAACAAAGAGCTCCAAACGAAATCAAAATGCAATCTCCGAGCACA	1167	1921	GTGAATGAAAAACAGTTACCTTGGAACTACTGGATTAATGGAGCAGGTGCTGATCTACT	1980
Qy	841	TGGGAGTGATCCGTGATCTGAGGACTTTAAGAAAAACCACTCTCTATGACAAACAGCCA	900	2248	GTGAATGAAAAACAGTTACCTTGGAACTACTGGATTAATGGAGCAGGTGCTGATCTACT	2307
Db	1168	TGGGAGTGATCCGTGATCTGAGGACTTTAAGAAAAACCACTCTCTATGACAAACAGCCA	1227	1981	AAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATGACACGAATGGTAGATACAGT	2040
Qy	901	CCAAATCCCACTTCTCATTTGCTCGAGATTGGGACAAAGAAATGTGTGTTAGTCTTTGAC	960	2308	AAGGATGACGGTGTCTACTCAAGGTATTTCAACACTTATGACACGAATGGTAGATACAGT	2367
Db	1228	CCAAATCCCACTTCTCATTTGCTCGAGATTGGGACAAAGAAATGTGTGTTAGTCTTTGAC	1287	2041	GTAAAGTGGGGCTCTGGGAGAGTTAAACGACCCAGACGAGAGTGATACCCAGCAG	2100
Qy	961	AAATCTGGAACATGGCGACTGTTAAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1020	2368	GTAAAGTGGGGCTCTGGGAGAGTTAAACGACCCAGACGAGAGTGATACCCAGCAG	2427
Db	1288	AAATCTGGAACATGGCGACTGTTAAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTT	1347	2101	AGTGAGCAGCTGTATACATACCTGGCTGGATTCAGAAATGATGAATCAATGGAATCCACA	2160
Qy	1021	TTCTGCTGACAGAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1080	2428	AGTGAGCAGCTGTATACATACCTGGCTGGATTCAGAAATGATGAATCAATGGAATCCACA	2487
Db	1348	TTCTGCTGACAGAGTTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGCT	1407	2161	AGACCTGAAATTAATAGGATGATTTCAACACAGCAAGTGTTTTCAGCAGACATCC	2220
Qy	1081	GCCCATGTACAAAGTGAATCATACAGATTAACAGTGGAGTGACAGGACACACTCGCC	1140	2488	AGACCTGAAATTAATAGGATGATTTCAACACAGCAAGTGTTTTCAGCAGACATCC	2547
Db	1408	GCCCATGTACAAAGTGAATCATACAGATTAACAGTGGAGTGACAGGACACACTCGCC	1467	2221	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTCCCATACCTGATCTCTCCCA	2280
Qy	1141	AAAAGATTACCTGACAGCTTCAGGAGGAGCTCCATCTGACGCGGCTTCGATCGGCA	1200	2548	TCGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAATGCTCCCATACCTGATCTCTCCCA	2607
Db	1468	AAAAGATTACCTGACAGCTTCAGGAGGAGCTCCATCTGACGCGGCTTCGATCGGCA	1527	2281	CCTGCGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2340
Qy	1201	TTTACTGTGATTAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGTGACGGAT	1260	2608	CCTGCGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGGAGTCTCATTAATCTGACT	2667
Db	1528	TTTACTGTGATTAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGTGACGGAT	1587	2341	TCGACAGCTCTGGGATGATTAATGACCATGCAACAGCTCACAAGTATATCATTTCCGAATA	2400
Qy	1261	GGGGAAGACAACAATAATAGTGGTCTTAACAGAGTCAACAAAGTGGTCCCATCATC	1320	2668	TCGACAGCTCTGGGATGATTAATGACCATGCAACAGCTCACAAGTATATCATTTCCGAATA	2727
Db	1588	GGGGAAGACAACAATAATAGTGGTCTTAACAGAGTCAACAAAGTGGTCCCATCATC	1647	2401	AGTACAAGTATTTCTGATCTCAGACACAAAGTTCATGAAATCTCTTCAAGTGAATCTACT	2460
Qy	1321	CACACAGTGGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGCTGTCAAAATGACA	1380	2728	AGTACAAGTATTTCTGATCTCAGACACAAAGTTCATGAAATCTCTTCAAGTGAATCTACT	2787
Db	1648	CACACAGTGGCTTTGGGGCCCTCTGAGCTCAAGAACTAGAGAGCTGTCAAAATGACA	1707	2461	GCTCTCATCCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTT	2520
Qy	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAATGCGCTCATTTGATGCTTTT	1440	2788	GCTCTCATCCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATTT	2847
Db	1708	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAAATGCGCTCATTTGATGCTTTT	1767	2521	ACTTTTGAATTTGGACAGATCTTTTTCATTTGATTTTCAGGCTGTTGATAGGTGCTGCTG	2580
Qy	1441	GGGGCCCTTTTATCAGGAATAGAGTGTCTCTCAGGCTCCATCCAGCTTGAGAGTAAG	1500	2848	ACTTTTGAATTTGGACAGATCTTTTTCATTTGATTTTCAGGCTGTTGATAGGTGCTGCTG	2907
Db	1768	GGGGCCCTTTTATCAGGAATAGAGTGTCTCTCAGGCTCCATCCAGCTTGAGAGTAAG	1827	2581	AAATCGAAATATCCCAACATTCACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA	2640
Qy	1501	GGATTACCTCCAGAACAGCCAGTGTGAATGGACAGTGTGATCGTGGACAGCACCGTG	1560	2908	AAATCGAAATATCCCAACATTCACAGATATCTTTGTTTATTCCTCCACAGACTCCGCCA	2967
Db	1828	GGATTACCTCCAGAACAGCCAGTGTGAATGGACAGTGTGATCGTGGACAGCACCGTG	1887	2641	GAGACACCTAGTCTGTGATGAAACGTCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT	2700
Qy	1561	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCGCTCCCCAAATCTCTCTGG	1620	2968	GAGACACCTAGTCTGTGATGAAACGTCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT	3027
Db	1888	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCGCTCCCCAAATCTCTCTGG	1947	2701	ATTCTGGCATTCACATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	2760
Qy	1621	GATCCAGTGGACAGAAAGTGGTGTGTTAGTGACAAAACACCAAAATGGCTTAC	1680	3028	ATTCTGGCATTCACATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	3087
Db	1948	GATCCAGTGGACAGAAAGTGGTGTGTTAGTGACAAAACACCAAAATGGCTTAC	2007	2761	ATAGCTAGGCTGCAATTTTGTTCAGATAAATAAATAAATAAATAAATAAATAAATAAATAAATA	2820
Qy	1681	CTCCAAATCCAGGACTTGTAAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	1740	3088	ATAGCTAGGCTGCAATTTTGTTCAGATAAATAAATAAATAAATAAATAAATAAATAAATAAATA	3146
Db	2008	CTCCAAATCCAGGACTTGTAAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCA	2067	2821	TTATAAATTTTCTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	2880
Qy	1741	CAAACTTGAACCTGACTGTACAGTCCGCTGGTCCCAATGCTACGCTGCTTCCCAATTACA	1800	3147	TTATAAATTTTCTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA	3206
Db	2068	CAAACTTGAACCTGACTGTACAGTCCGCTGGTCCCAATGCTACGCTGCTTCCCAATTACA	2127	2881	ATAGTACATTTTATCTAAATCTGATTTTCTGTTAGGGGGGCGATATCTAAATGATAT	2940
Qy	1801	GTGACTTCCAAACGAAACAGACACCAAGCAATTTCCCGAGCCCTCTGTTAGTTTATGCA	1860	3207	ATAGTACATTTTATCTAAATCTGATTTTCTGTTAGGGGGGCGATATCTAAATGATAT	3266
Db	2128	GTGACTTCCAAACGAAACAGACACCAAGCAATTTCCCGAGCCCTCTGTTAGTTTATGCA	2187	2941	TTCTGTAGGGGGCGGATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA	2983
Qy	1861	ATATTTCCGCAAGGAGCTTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA	1920	3267	TTCTGTAGGGGGCGGATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA	3309
Db	2188	ATATTTCCGCAAGGAGCTTCCCAATTTCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA	2247			



RESULT 12  
US-10-393-590-47  
; Sequence 47, Application US/10393590  
; Publication No. US20030190656A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: BREAST CANCER PROGNOSTIC PORTFOLIO  
; FILE REFERENCE: CDS 268 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,590  
; PRIORITY FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,789  
; PRIORITY FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 47  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-590-47

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY	1	GAATCACAGGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTCTGTTTCATCTTGATT	60
Db	328	GGAAATCACAGGGAGATGTACAGCAATGGGGCCATTAAAGAGTTCTCTGTTTCATCTTGATT	387
QY	61	CTTCACCTCTAGAGGGGCGCTGAGTAATCACTCATTCAGCTGAACAACTGGCTAT	120
Db	388	CTTCACCTCTAGAGGGGCGCTGAGTAATCACTCATTCAGCTGAACAACTGGCTAT	447
QY	121	GAAGGCAATGTCCTGCAATGCAACCCCAATGCGAGATGCGCAGAGATGAACATCTATCAACAA	180
Db	448	GAAGGCAATGTCCTGCAATGCAACCCCAATGCGAGATGCGCAGAGATGAACATCTATCAACAA	507
QY	181	ATAAGGCAATGTCCTGCAATGCAACCCCAATGCGAGATGCGCAGAGATGAACATCTATCAACAA	240
Db	508	ATAAGGCAATGTCCTGCAATGCAACCCCAATGCGAGATGCGCAGAGATGAACATCTATCAACAA	567
QY	241	TATTTCAAAATGTTGCCATTTTGAATTCCTGAAAATGCAAGCAAGGCTGACATATGTG	300
Db	568	TATTTCAAAATGTTGCCATTTTGAATTCCTGAAAATGCAAGCAAGGCTGACATATGTG	627
QY	301	AGACCAAACTTGACACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA	360
Db	628	AGACCAAACTTGACACCTACAAAATGCTGATGTTCTGTTGCTGAGTCTACTCTCTCA	687
QY	361	GGTAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGTTGAAAGGATC	420
Db	688	GGTAATGATGAACCTTACACTGAGCAGATGGGCAACTGTGGAGAGAAGGTTGAAAGGATC	747
QY	421	CACCTCACTCTGATTTTCAATGTCAGGAAAAGTTAGTGAATATGGACCAAGGTTAGG	480
Db	748	CACCTCACTCTGATTTTCAATGTCAGGAAAAGTTAGTGAATATGGACCAAGGTTAGG	807
QY	481	GCATTTGTCATGAGTGGGCTCACTGAGTGGGAGTATTTGACGAGTACAAATATGAT	540
Db	808	GCATTTGTCATGAGTGGGCTCACTGAGTGGGAGTATTTGACGAGTACAAATATGAT	867
QY	541	GAGAAATTTCTACTTATCCAAATGGAAGAATAAAGCAGTAAGATGTTTACAGAGGATTTACT	600
Db	868	GAGAAATTTCTACTTATCCAAATGGAAGAATAAAGCAGTAAGATGTTTACAGAGGATTTACT	927
QY	601	GGTACAAATGTAGTAAGAAGTGTACGGAGGAGCTGTTTACACCAAAAGATGACATTC	660
Db	928	GGTACAAATGTAGTAAGAAGTGTACGGAGGAGCTGTTTACACCAAAAGATGACATTC	987
QY	661	AATAAGTATACAGACTCTATGAAGAAAGGATGAGTTGTTTCTCCAAATCCCGCAGACG	720
Db	988	AATAAGTATACAGACTCTATGAAGAAAGGATGAGTTGTTTCTCCAAATCCCGCAGACG	1047

QY	721	GAGAAGGCTTCTATATGTTTGGCAACAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780
Db	1048	GAGAAGGCTTCTATATGTTTGGCAACAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	1107
QY	781	CAAAACCAACAACAAGGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAGACAA	840
Db	1108	CAAAACCAACAACAAGGCTCCAAACAAGCAAAATCAAAAATGCAATCTCCGAGACAA	1167
QY	841	TGGAAAGTATCGTGTGATTTCTGAGGACTTTAAAGAAACCACTCTATGACAAACAGCCCA	900
Db	1168	TGGAAAGTATCGTGTGATTTCTGAGGACTTTAAAGAAACCACTCTATGACAAACAGCCCA	1227
QY	901	CCAAATCCCACTTCTCATTTGCGAGATTGGCAAGAATTTGTTTGTGTTTGTGTTTGTGAC	960
Db	1228	CCAAATCCCACTTCTCATTTGCGAGATTGGCAAGAATTTGTTTGTGTTTGTGTTTGTGAC	1287
QY	961	AAATCTGGAAGCATGGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTT	1020
Db	1288	AAATCTGGAAGCATGGCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTT	1347
QY	1021	TTCTCTCTCGACAGATTGAGCTGGGGTCTCTGGTTGGGATGGTGACATTTTGACAGTGT	1080
Db	1348	TTCTCTCTCGACAGATTGAGCTGGGGTCTCTGGTTGGGATGGTGACATTTTGACAGTGT	1407
QY	1081	GGCCATGTACAAAGTGAACCTCATACAGATAAACAAGTGGCAGTGACAGGACACACTCGCC	1140
Db	1408	GGCCATGTACAAAGTGAACCTCATACAGATAAACAAGTGGCAGTGACAGGACACACTCGCC	1467
QY	1141	AAAAGATTACCTGCGAGCAGCTTCAGSAGGAGCTCCATCTGAGCGGGCTTGATCGGCA	1200
Db	1468	AAAAGATTACCTGCGAGCAGCTTCAGSAGGAGCTCCATCTGAGCGGGCTTGATCGGCA	1527
QY	1201	TTTACTGTGATTAGGAAGAAATATCCACTGATGGATCTGAAATTTGCTGTGACGGAT	1260
Db	1528	TTTACTGTGATTAGGAAGAAATATCCACTGATGGATCTGAAATTTGCTGTGACGGAT	1587
QY	1261	GGGGAGGACAACTATTAAGTGGTGTCTTAAAGAGGTCAAAACAAAGTGGTCCCATCATC	1320
Db	1588	GGGGAGGACAACTATTAAGTGGTGTCTTAAAGAGGTCAAAACAAAGTGGTCCCATCATC	1647
QY	1321	CACACAGTCGCTTTGGGGCCCTCTGAGCTCAAGACTAGAGGAGCTGTCCAAAATGACA	1380
Db	1648	CACACAGTCGCTTTGGGGCCCTCTGAGCTCAAGACTAGAGGAGCTGTCCAAAATGACA	1707
QY	1381	GGAGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAACAATGGCTCATTTGATCTTT	1440
Db	1708	GGAGTTTACAGACATATGCTTTCAGATCAAGTTCAAGAAACAATGGCTCATTTGATCTTT	1767
QY	1441	GGGGCCCTTTTTCATCAGGAAATGGAGCTGTCTCTAGCGCTCCATCCAGTTGAGAGTAAG	1500
Db	1768	GGGGCCCTTTTTCATCAGGAAATGGAGCTGTCTCTAGCGCTCCATCCAGTTGAGAGTAAG	1827
QY	1501	GGATTAAACCTTCCAGAACAGCCAGTGGATGAATGGCAGTGAATGGGAGCAGCAGCCGTG	1560
Db	1828	GGATTAAACCTTCCAGAACAGCCAGTGGATGAATGGCAGTGAATGGGAGCAGCAGCCGTG	1887
QY	1561	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCTCCCAAAATCTCTCTCTGG	1620
Db	1888	GGAAAGGACACTTTGTTTCTTATCACCTGGACAAACGAGCTCCCAAAATCTCTCTCTGG	1947
QY	1621	GATCCCAAGTGAAGAAGGAGTGGCTTTGTTAGTGGAACAAAACACCAAAATGGCCTAC	1680
Db	1948	GATCCCAAGTGAAGAAGGAGTGGCTTTGTTAGTGGAACAAAACACCAAAATGGCCTAC	2007
QY	1681	CTCCAAATTCAGGCAATTTGCTTGGCTTGGCACTTGGAAATACAGTCTGCAAGCAAGTCA	1740
Db	2008	CTCCAAATTCAGGCAATTTGCTTGGCTTGGCACTTGGAAATACAGTCTGCAAGCAAGTCA	2067
QY	1741	CAAACTTGAACCTTGAATGTCAGTCCCGTGGCTCCAAATGCTACCTGCTCCAAATTACA	1800
Db	2068	CAAACTTGAACCTTGAATGTCAGTCCCGTGGCTCCAAATGCTACCTGCTCCAAATTACA	2127
QY	1801	GTGACTTCCAAAAGCAAGGACACAGCAAAATTTCCCGAGCCCTCTGTGTAGTTTATGCA	1860



Db 2128 GTGACCTTCCAAACGAAACAGGACACCAAGAAATCCCCAGCCCTCTGGTAGTTTATGCA 2187  
QY 1861 AATATTGCCAAGAGAGCTCCCAATCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA 1920  
Db 2188 AATATTGCCAAGAGAGCTCCCAATCTCAGGGCCAGTGTACAGCCCTGATTTGAATCA 2247  
QY 1921 GTGAATGGAAAAACATTTACCTTGGAACTTCTGGAATATGGAGCAGGTGCTGATCTACT 1980  
Db 2248 GTGAATGGAAAAACATTTACCTTGGAACTTCTGGAATATGGAGCAGGTGCTGATCTACT 2307  
QY 1981 AAGGATGACGGTGTCTACTCAGGTATTTCACAACTTATGACCAAGATGGTAGATACAGT 2040  
Db 2308 AAGGATGACGGTGTCTACTCAGGTATTTCACAACTTATGACCAAGATGGTAGATACAGT 2367  
QY 2041 GTAAAGTTCGGGCTCTGGAGGAGTTAACGAGCAGACGAGAGAGTGTATCCCGCAGCAG 2100  
Db 2368 GTAAAGTTCGGGCTCTGGAGGAGTTAACGAGCAGACGAGAGTGTATCCCGCAGCAG 2427  
QY 2101 AGTGAGCACTGTATACCTGGCTGGATTGAGATGATGAATATCAATGGAATCCACCA 2160  
Db 2428 AGTGAGCACTGTATACCTGGCTGGATTGAGATGATGAATATCAATGGAATCCACCA 2487  
QY 2161 AGACCTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTACAGCAACATCC 2220  
Db 2488 AGACCTGAAATTAATAAGGATGATTTCAACACAGCAAGTGTGTTTACAGCAACATCC 2547  
QY 2221 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATCTGATCTCTTCCCA 2280  
Db 2548 TCGGAGGCTCATTTGTGGCTTCTGATGTCCCAATGCTCCCATCTGATCTCTTCCCA 2607  
QY 2281 CTGGCCAAATCAGCAGCTGAAGGGGGAATTCAGGGGGGAGTCTCATTTATCTGACT 2340  
Db 2608 CTGGCCAAATCAGCAGCTGAAGGGGGAATTCAGGGGGGAGTCTCATTTATCTGACT 2667  
QY 2341 TGGACAGCTCCTGGGATGATTTATGACCATGGAACAGCTCACAAGTATATCATTTGCAATA 2400  
Db 2668 TGGACAGCTCCTGGGATGATTTATGACCATGGAACAGCTCACAAGTATATCATTTGCAATA 2727  
QY 2401 AGTACAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2460  
Db 2728 AGTACAGTATTTCTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATCTACT 2787  
QY 2461 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATT 2520  
Db 2788 GCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACAGAAACATT 2847  
QY 2521 ACTTTTGAATAAGGACAGATCTTTTCAATGCTATTGAGGCTGTTGATAGGTGCTG 2580  
Db 2848 ACTTTTGAATAAGGACAGATCTTTTCAATGCTATTGAGGCTGTTGATAGGTGCTG 2907  
QY 2581 AAATCAGAAATATCCAACTTGCACAGATATCTTTGTTTATCTCTCCACAGATCTCGCCA 2640  
Db 2908 AAATCAGAAATATCCAACTTGCACAGATATCTTTGTTTATCTCTCCACAGATCTCGCCA 2967  
QY 2641 GAGACACCTAGTCTGATGAAACGCTGCTCTCTGCTTCTTAAATTCATATCAACAGCACC 2700  
Db 2968 GAGACACCTAGTCTGATGAAACGCTGCTCTCTGCTTCTTAAATTCATATCAACAGCACC 3027  
QY 2701 ATTCTGGCAATTCACATTTTAAAAATTTATGTTGAAGTGGATAGGAACTGCGAGCTGCA 2760  
Db 3028 ATTCTGGCAATTCACATTTTAAAAATTTATGTTGAAGTGGATAGGAACTGCGAGCTGCA 3087  
QY 2761 ATAGCCTAGGCTGAATTTTGTGATGAAATATTAATAATTAATTCATCTCTTTTTTTTGA 2820  
Db 3088 ATAGCCTAGGCTGAATTTTGTGATGAAATATTAATAATTAATTCATCTCTTTTTTTTGA 3146  
QY 2821 TTATAAATTTTCTAAATGATTTTATGACTTCTGAGGGGAGATATCTACTAATGAT 2880  
Db 3147 TTATAAATTTTCTAAATGATTTTATGACTTCTGAGGGGAGATATCTACTAATGAT 3206  
QY 2881 ATAGTACATTTATCTAAATGATTTCTCTGAGGGGAGATATCTAAATGATTTTATGAC 2940

Db 3207 ATAGTACATTTATCTAAATGATTTCTCTGAGGGGAGATATCTAAATGATTTTATGAC 3266  
QY 2941 TTCTGTAGGGGGCGATTAATAATAAATCTTAACAACACTGGGTA 2983  
Db 3267 TTCTGTAGGGGGCGATTAATAATAAATCTTAACAACACTGGGTA 3309

RESULT 13  
US-10-393-567-11  
; Sequence 11, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 249 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 11  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-11

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 GAAATCACAGGAGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTCTATCTTAT 60  
Db 328 GGAATCACAGGAGAGATGTACAGCAATGGGGCCATTTAAGAGTTCTGTGTCTATCTTAT 387  
QY 61 CTTACCTTTCTAGAGGGGCCCTGAGTAATTCATTCAGTGAACAAATGCTAT 120  
Db 388 CTTACCTTTCTAGAGGGGCCCTGAGTAATTCATTCAGTGAACAAATGCTAT 447  
QY 121 GAAGGATTTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAACACCTCATTTCAACAA 180  
Db 448 GAAGGATTTGCTGTGCAATCGACCCCAATGTGCCAGAGATGAACACCTCATTTCAACAA 507  
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## RESULT 15

US-10-393-567-46  
; Sequence 46, Application US/10393567  
; Publication No. US20030194733A1  
; GENERAL INFORMATION:  
; APPLICANT: WANG, YIXIN  
; TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL  
; FILE REFERENCE: CDS 269 US NP  
; CURRENT APPLICATION NUMBER: US/10/393,567  
; CURRENT FILING DATE: 2003-03-21  
; PRIOR APPLICATION NUMBER: 60/368,667  
; PRIOR FILING DATE: 2002-03-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 46  
; LENGTH: 3311  
; TYPE: DNA  
; ORGANISM: human  
US-10-393-567-46

Query Match 99.4%; Score 2966.2; DB 15; Length 3311;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2979; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 1 GAAATCACAGGAGATGTACAGCAATGGGGCCATTTAAGAGTTCCTGTTTCATCTTGATT 60  
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GenCore version 5.1.6  
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#### ALIGNMENTS

##### RESULT 1

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; Sequence 6, Application US/09623624

; Patent No. 6576434

; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders

; FILE REFERENCE: 36870-5073-WO

; CURRENT APPLICATION NUMBER: US/09/623,624

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: PCT/US99/04703

; PRIOR FILING DATE: 1999-03-03

; PRIOR APPLICATION NUMBER: US 08/697,360

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,419

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,440

; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,471

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; PRIOR APPLICATION NUMBER: US 08/697,472

; PRIOR FILING DATE: 1996-08-23

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; PRIOR APPLICATION NUMBER: US 08/702,105

; PRIOR FILING DATE: 1996-08-23

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; PRIOR FILING DATE: 1996-08-23

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; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/980,872

; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18  
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; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
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; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
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; NUMBER OF SEQ ID NOS: 18
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; ORGANISM: Homo sapiens
; US-10-270-595-6

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QY 625 CAGGAGGCGCTGTTACACCAAAAGATGACATTCAATTAAGTAACAGGACTCTATGAA 584  
DB 201 GlnGlyGlySerCysThrLysArgCysThrPheAsnLys\*\*ThrGlyLeuTyrGlu 220  
QY 685 AAAGAGTGTAGTTGTTCTCCATCCCGCAGACGAGAGAGGCTTCATATGTTTGA 744  
DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
QY 745 CAACATGTTGATTTCTATAGTTGAAATTTCTGTACAGAACAAACCAACAAAGAGCTCCA 804  
DB 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY 805 AACAGCAAAATCAAAATGCAATCTCGAAGCACATCGGAAGTATCCGTGATTTCTGAG 864  
DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY 865 GACTTTAAGAAAACCACTCTATGACAAACACAGCCACCAAAATCCCACTTCTCATTTGCTG 924  
DB 281 AspPheLysLysThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY 925 CAGATTGGACAAAGAAATTTGTGTTTGTCTTGTGACAAATCTGGAAGCATGGCGACTGGT 984  
DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCCCTCAATCGACTGAATCAACAGCGCGAGCTTTTCTGCTGCACAGAGTTGAGCTG 1044  
DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTCGGTGGGATGGTGATTTGACATTTGACAGTGTGCTCCATGTACAAAGTGAATCTATA 1104  
DB 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY 1105 CAGATAAAGAGTGGCAGTACAGGACACACTCGCCAAAGATTAACCTGCACAGCTTCA 1164  
DB 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaLys 380  
QY 1165 GGAGGAGCTCATCTGACGGGCTTCGATCGGATTTACTGTTAGTAGGAATAAT 1224  
DB 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysIleTyr 400  
QY 1225 CCAACTGATGGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAACTATAAGTGGG 1284  
DB 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCTTTAAGAGGTCAACAAAGTGTGCCATCATCCACACAGTGTGGGGCCCTCT 1344  
DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer 440  
QY 1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAAATCACAGGAGGTTTACAGACATATGTTCA 1404  
DB 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
QY 1405 GATCAAGTTTCAGAAATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAATGGA 1464  
DB 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GTGTCTCTCAGCGTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAG 1524  
DB 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TGGATCAATGGCACAGTATCGTGACAGCACCGTGGGAAAGGACACTTTGTTCTTATC 1584  
DB 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
QY 1585 ACTTGCAACAGCAGCTCCCCAAATCCCTTCTCTGGATCCCAAGTCCGACAGAGCAAGGT 1644  
DB 521 ThrTrpThrThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GGGTTTGTAGTGACAAAACACAAATGGCTTACTCCAAATCCCAAGTCATGCTAAG 1704  
DB 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560

QY 1705 GTTGGCACTTGAAATACAGTCTCAAGCAAGCTCACAAACCTTGACCTGTCTCAG 1764  
DB 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCGCTGCTCCAATGCTACCTGCTCCCAATTACAGTACGTCTCAAAACCAACAGAC 1824  
DB 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATCCCAAGCCCTCTGTTATGCAATATTTCGCAAGGAGCTCTCCCA 1884  
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTTCCAGGGCCAGTGTACACAGCCCTGATTGAATCAGTGAATGGAATAACAGTTTACCTTG 1944  
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAATCTGATGATATGGAGCGGTGCTGATGCTTACTAAGATGAGCGGTCTACTCAAG 2004  
DB 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACACTTATGACACGAATGGTAGATACAGTGTAAAAGTGGCGGCTCTGGAGGA 2064  
DB 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAACGAGCCAGCAGGAGAGTGAATACCCAGCAGAGTGGAGCACTGTACATCTGCG 2124  
DB 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGATGATAATCAATGGAATCCACCAGACCTGGAATTAATANGATGAT 2184  
DB 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACACAGCAAGTGTGTTTACAGCAAGACATCTCGGAGGCTCAATTTGTGCTTCT 2244  
DB 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGTCTCCATACCTGATCTTCCACCTGGGCCAAATCACCCAGCTGAAG 2304  
DB 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGGAGTCTTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364  
DB 761 AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAACAGCTCACAAATATATCATTCGAATAAGTACAAGTATTCTTGATCTCAGA 2424  
DB 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAAGTTCAATGAATCTCTTCAAGTGAATACTACTGTCTCTATCCCAAGGAGCAAC 2484  
DB 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGGAAGTCTTTTGTTTAAACAGAAACATTTACTTTTGAATGCGCACATCTT 2544  
DB 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCAATGCTATTTCAGGCTCTTCATTAAGTTCGATCTGAAATCAGAAATATCCAACTTGA 2604  
DB 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATTCTCCAGACTCCCGCAGAGACACCTAGTCTCTGATGAACG 2664  
DB 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTGCTGCTTAATATTTCATATCACAGCACCATTTCTCTGGCATTCACATTTTAAA 2724  
DB 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGAAGTGGATAGGAACTGCAGCTGTCAATAGCC 2766  
DB 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 3

US-09-193-562D-28

; Sequence 28, Application US/09193562D  
; Patent No. 6309857

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; FILE REFERENCE: 18617.0052

; CURRENT APPLICATION NUMBER: US/09/193,562D

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-193-562D-28

Alignment Scores:

Score: 0 Length: 914

Percent Similarity: 4753.00 Matches: 912

Best Local Similarity: 100.00% Conservative: 2

Query Match: 99.78% Mismatches: 0

DB: Indels: 0

Gaps: 0

US-09-049-696-18 (1-2813) x US-09-193-562D-28 (1-914)

QY	25	ATGGGGCCATTAGAGTTCTGTGTTTCATCTTGATCTTCACTTCTACCTTCTAGAGGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCACATTCATTCAGTCAACAAATCGCTATGAGGATGCTGTTGCAATCGAC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTGCCAGAGATGAACACTCATTTCAACAAATATAAGGATGGTGCACCCAGSCA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGATCTGTTTGAAGTACAGGAAGCGATTTTATTTTCAAAAATGTTGCCATTTTG	264
Db	61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCCTCAAAATCATGAGACAAAGGCTGACTATGTGAGACCAAACTTGACACCTACAAA	324
Db	81	IleProGluThrTriPlysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGGTTGCTGAGTCTACTCCTCCAGGTAATGATGAACCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCAACTGTGAGAGAGGGTGAAGGATCCACTCCTGATTTCAATTTGCA	444
Db	121	GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAAGTTAGTGAATATGACCAACAGGTAGGGCATTTGTCATGATGGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluThrAlaHis	160
QY	505	CTACGATGGGAGTATTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAAATGGA	564
Db	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGATACAAACAGTATGATGTCAGAGGATTTACTGGTCAAAATGAGTAAAGAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGGAGCTGTTTACACCAAAAGATGCACATTCATTAAGTAAACAGACACTATGAA	684
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220

QY	695	AAAGGATGTAGTTTGTCTTCCAAATCCCGCCAGACGGAGAGGCTTCTATAATGTTGCA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgInThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTCTATAGTTCAATCTCTCAGACACAAACACACAAAGAGCTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAAAGCAAAATCAAAAATGCAATCTCGAAGCACATGGGAAGTGCATCGTTCATTCGAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACITTAAGAAAACCACTCTTATGACAAACACAGCCCAAAATCCCACTTCTCATTTGCTG	924
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATTTGTGTTTACTCTTGCACAAATCTGGAGAGTGCATCGTTCATTCGAG	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGCTGCACACAGTTGAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGTCTCTGGGTTGGATGCTGACATTTGACAGTGTGCCCATGTACAAAGTGAATCTCATA	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAGTGGCAGTGACAGGACACACTCCGCCAAAAGATTACCTGCAGAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGACGTCTCACTCTCAGCGGCTTCGATCGGCATTTTACTGATTAGGAAGAAATAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAACTGATGATCTGAAATTTGCTCTGCTGACGGATGGGGAAGACAACTAATAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAAACAGGTCACAAAGGTGGTCCATCATCTCCACAGTCGCTTTGGGGCCCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA	1404
Db	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTTCAGACATGCTTCATGATGCTTTTGGGGCCCTTTCATCAGGAAATGGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGGATTAAGGATTAAACCTCCAGACAGCCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGGACAGTGTGCTGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACACGAGCTCCCAAAATCCTTCTCTGGATCCCAAGTCCCAAGAGCAAGGT	1644
Db	521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGACAAAAACACAAAATGGCTACCTCCAAATCCCGCATTCGTAAG	1704
Db	541	GlyPheValValAspLysAsnThrLysMetAlaIleLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAGAAACCTTGCACCTGACTGCACG	1764
Db	561	ValGlyThrTriPlysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCCGTGGCTCCAAATGCTACCTGCTCCAAATTACAGTGACTTCCAAAACGAAAGGAC	1824

Db	581	SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp	600
Qy	1825	ACCAGCAAAATCCCGAGCCCTCGTGTATGCAATATATCCGCAAGGAGCTCCCA	1884
Db	601	ThrSerLysPheProSerProLeuValValTyAlaAlaSerPro	620
Qy	1885	ATTCTCAGGGCCAGTGTCCAGCCCTGATCAATCAGTGAATGGAACAGTACCTTG	1944
Db	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
Qy	1945	GAATCTGGGATATCGAGAGGTGCTGATCTACTAGGATGCGGTCTCTACTCAGG	2004
Db	641	GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTySerArg	660
Qy	2005	TATTTCACACTTATGACCAATGTTAGATACAGTGTAAAGTCCGGCTCTGGAGGA	2064
Db	661	TyrPheThrThrTyAspThrAsnGlyArgTySerValLysValArgAlaLeuGlyGly	680
Qy	2065	GTTAACGAGCCAGACGAGAGTGATACCCAGCAGAGTGAGGACTGTACTACTGCG	2124
Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyIleProGly	700
Qy	2125	TGGATTGGAATGATGAATCAATGAATCCACCAAGACCTGAAATTAATTAAGCATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
Qy	2185	GTTCAACACAAAGTGTGTTTACGACAGAACATCTCGGAGGCTCAATTTGTGCTTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
Qy	2245	GATGTCCAAATGCTCCCATACCTGATCTCTCCACCTGGGCAATCACCGACCTGAG	2304
Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
Qy	2305	GGGGAATTCACGGGGAGTCTTATTAATCTGACTTGACAGCTCCTGGGATGATTAT	2364
Db	761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspTyr	780
Qy	2365	GACCATGGAACAGCTCACAAATATATCATTCGAATAAGTACAGTATCTTCATCTCAGA	2424
Db	781	AspHisGlyThrAlaHisLysTyIleIleArgIleSerThrSerIleLeuAspLeuArg	800
Qy	2425	GACAAGTCAATGAATCTCTCAAGTGAATCTACTGCTCTCATCCCAAGGAGCCAC	2484
Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
Qy	2485	TCTGAGGAAGTCTTTTGTGTTAAACAGAAACATTTACTTTTGAATGGCACAGATCTT	2544
Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
Qy	2545	TTCAATGCTATTACAGCTGTTGATAGGTGATCTGAAATCAGAAATATCCAACTGCA	2604
Db	841	PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
Qy	2605	CGAGTATCTTTGTTATCTCCACAGCTCCGCGACAGACCTAGTCTGTGTAAGC	2664
Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
Qy	2665	TCTGCTCTTGTCTTAATATTCATATCAACAGCACCATTTCTGGCATTCACATTTTAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
Qy	2725	ATTATCTGAGGTGATAGAGAACTGCAGCTCTCAATAGCC	2766
Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914

RESULT 4  
US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.

Qy	25	ATGGGGCCATTAAAGATTCTGTGTTTCATCTTGTTCACCTTCTAGAGGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheIleLeuIleHisLeuLeuGlyAlaLeu	20
Qy	85	AGTAATTCACATTCAGCTGAACAAATGCTATGAAGCATTTGCTTGCATTCGAC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyGlyGlyIleValValAlaIleAsp	40
Qy	145	CCCAATGTCAGAGATGAACACTATTCAAAATAAGGACATGGTGACCCAGCA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
Qy	205	TCTCTGATCTGTTTGAAGCTACAGAAAGCATTTTATTTCAAAATGTTGCCATTTTG	264
Db	61	SerLeuTyLeuPheGluAlaThrGlyLysArgPheTyPheLysAsnValAlaIleLeu	80
Qy	265	ATTCTCTGAAACATGGAAGCAAGCTGACTATGTGAGACCAAACTTGAGACCTCAAA	324
Db	81	IleProGluThrTrpLysThrLysAlaAspTyValArgProLysLeuGluThrTyLys	100
Qy	325	AATGCTGATTTCTGGTGTGCTGCTACTCTCCAGTAAATGATGAACCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyThrGlu	120
Qy	385	CAGATGGGCAACTGTGGAGAGAGGTGAAAGGATCCACCTCACTCTCATTTTCATTGCA	444
Db	121	GlnMetGlyAsnCysGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly	140
Qy	445	GGAAAAAGTTAGCTGAATATATGACCAAGTAGGAGCATTTGTCATGAGTGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyGlyProGlnGlyLysAlaPheValHisIleTrpAlaHis	160
Qy	505	CTACAGTGGGAGTATTTGACAGATACATATGATGAGAAATCTTACTTATCCATGCA	564
Db	161	LeuArgTrpGlyValPheAspGluTyAsnAsnAspGluLysPheTyLeuSerAsnGly	180
Qy	565	AGAATAACAGCAGTAAAGTGTTCAGCAGGTATTTACTGGTACAAATGTAGTAAAGAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
Qy	625	CAGGGAGGAGCTGTTTACACCAAAAGATGCATTCATTAAGTAACAGGACTCTATGAA	684
Db	201	GlnGlyGlySerCysTyThrLysArgCysThrPheAsnLysValThrGlyLeuTyThrGlu	220
Qy	685	AAAGGATGTGATTTGTTCTTCCAAATCCCGCAGCGAGAGGCTTCTATATATGTTTGA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4753.00 Matches: 912  
Percent Similarity: 100.00% Conservative: 2  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 93.56% Indels: 0  
Gaps: 4  
DB:

US-09-049-696-18 (1-2813) x US-10-055-412B-28 (1-914)

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

QY	745	CAACATGTTGATTCTATAGTTGAATTCCTGTACAGAACAAAAACACAAAGAGCTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	ACACAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGCATCGTATTCTGAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTAAGAAACCACTCCTATGACAAACACAGCCACCAAAATCCACCTTCTCATTTGCTG	924
Db	281	AspPheLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATTCGTGTTTGTAGTCCCTTGACAAATCTGGAGCATGCGCTGCT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	ACCCGCTCAATCGATGCAATCAAGCAGGCCAGCTTTTCTGCTGCAGACATTTGAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTCGGTGGATGGTGCATTTGACATTTGACAGTGTGCCCATGTACAAAGTGAATCTATA	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAGTGGCAGTCACAGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGAGCTGCATCTGACGGGGCTTCGATCGGCATTTACTGTCGATTAGGAGAAATAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAACTGATGATCTGAATTTGTCTGCTGCGGATGGGAGACAACTATAAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAACAGAGTCAAAACAAAGTGGTGCCATCATCCACACAGTGGCTTGGGGCCCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGCTCAAGAACTAGAGAGCTGTCCAAATAGCAGGAGGTTTACAGACATATGCTTCA	1404
Db	441	AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTCAGAACATGGCCTCATTTGATCTTTTGGGGCCCTTTCATCAGGAAATGGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGACAGCCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGGCACAGTATCGTGGACAGCACCTGTGGAAAGGACACTTTGTTCTTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACACGCGAGCTCCCAATCTTCTCTGGATCCAGTCCAGTGCAGACAGCAAGGT	1644
Db	521	ThrTrpThrThrGlnProProGlnIleLeuLeuThrAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGGACAAAAACCAAAATGGCTTACCTCCAAATCCCGAGCATTTGCTAAG	1704
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTTGGCACTGGAAATACAGTCTGCAAGAGCTCACAAACCTTGCACCTGACTGTCAAG	1764
Db	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCCGTCGGTCCATGTACTCCTCCCAATACATTACAGTACTTCCAAAACGAAACAGGAC	1824
Db	581	SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp	600
QY	1825	ACCAGCAAAATCCCGAGCCCTCTGGTAGTTTATGCAAAATATTGCAAGAGCCTCCCA	1884
Db	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
QY	1885	ATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTCAATCGGAACAAACAGTTACTTGG	1944
Db	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
QY	1945	GAACTACTGGATAATGGAGCAGTCTGATGCTACTTAAGGATGACGGTCTCTACTCAAGG	2004
Db	641	GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
QY	2005	TATTTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGA	2064
Db	661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
QY	2065	GTTAACGCGACGACGAGGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGC	2124
Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
QY	2125	TGGATTGGAATGTAGTAATAACAATGGAATCCACCAAGACCTGAAATTAATAAGGATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	2185	GTTCAACACAGCAAGTGTGTTTCAGACAGACATCTCGGAGGCTCATTTGTGGCTTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
QY	2245	GATGTCCCAATGTCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACCAGCCTGAAG	2304
Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
QY	2305	CGGAAATTCACGGGGCAGTCTCATTAATCTGGACAGCTCTCTGGGAGTATTAT	2364
Db	761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
QY	2365	GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAAAGTATCTTCTGATCTCAGA	2424
Db	781	AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg	800
QY	2425	GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTCTCTCATCCCAAGAGAGCCCAAC	2484
Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
QY	2485	TCTCAGGAAGCTTTTGTGTTTAAACACAGAAACATTAATCTTTGAAAATGGCACAGATCTT	2544
Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
QY	2545	TTTCTATTCTTATTCAGGCTGTGATAAGTTCGATCTGAAATCAGAAATATCCAACTTGCA	2604
Db	841	PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
QY	2605	CGAGTATCTTGTGTTTATTTCTCCACAGCTCCGCGCAGACACCTAGTCTCTGATGAACG	2664
Db	861	ArgValSerLeuPheIleProGlnThrProProGlnThrProSerProAspGluThr	880
QY	2665	TCTGCTCTTGTCTTAATATTTCATATCAACAGCACCATTTCTGCGATTCACATTTTAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	2725	ATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC	2766
Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914

RESULT 5  
 US-09-623-624-2  
 ; Sequence 2, Application US/09623624  
 ; Patent No. 6576434  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Magainin Pharmaceuticals, Inc.  
 ; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
 ; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
 ; TITLE OF INVENTION: Disorders



Alignment Scores:					
Pred. No.:	1.96e-309	Length:	913		
Score:	3656.50	Matches:	694		
Percent Similarity:	86.99%	Conservative:	102		
Best Local Similarity:	75.85%	Mismatches:	112		
Query Match:	71.98%	Indels:	7		
DB:	4	Gaps:	4		
US-09-049-696-18 (1-2813) x US-09-623-624-2 (1-913)					
Qy	25	ATGGGGCCATTAAAGAGTCTGTGTTCATCTTGATTTCTACCTTCTAGAGGGGCCCTG	84		
Db	1	MetGluSerLeuLysSerProValPheLeuLeuLleLeuHisLeuLeuGluGlyValLeu	20		
Qy	85	AGTAATTCACCTATTCAAGCTGAACAAACAATGCTATGAAGGCATTGTCGTTCCAAATCGAC	144		
Db	21	SerGluSerLeuLleGlnLeuAsnAsnAenglyTyrGluGlyIleValIlealaIleAsp	40		
Qy	145	CCCAATGTCGCAAGAGATGAACACATCATTCACAAATAAAGGACATGTCGACCCAGGCA	204		
Db	41	HisAspValProGluAspGluAlaLeuLleGlnHisIleLysAspMetValThrGlnAla	60		
Qy	205	TCTCTGATCTGTTGAAGCTACAGAAAGCGCATTTATTTCAAAAATCTTCGCCATTG	264		
Db	61	SerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValIleLeu	80		
Qy	265	ATTCCTGAAACATGAAGACAAAGGCTGACTATGTGACAGCAAAACCTTGAGACCTACAA	324		
Db	81	IleProGluSerTirplysAlaLysProGluTyrThrArgProLysLeuGluThrPheLys	100		
Qy	325	AATGCTGATGTTCTGGTTGCTGAGTCTACTCCCTCCAGGTAATGATGAACCCCTACACTGAG	384		
Db	101	AsnAlaAspValLeuValSerThrThrSerProLeuGlyAsnAspGluProTyrThrGlu	120		
Qy	385	CAGATGGGCACTGTGGACAGAGGCTGAAGGATCCACTCTCACTCTCATTTCTATGCA	444		
Db	121	HisIleGlyAlaCysGlyGlnLysGlyIleArgIleHisLeuThrProAspPheLeuAla	140		

D <sub>b</sub>	501	GlnTrpMetAsnGlySerValIleValAspSerSerValGlyLysAspThrLeuPheLeu	520
Q <sub>y</sub>	1582	ATCACCTGGACAACGAGCGCTCCCAAAATCCTTCTCGSGATCCCGAGNGGACAGAAGCAA	1641
D <sub>b</sub>	521	IleThrTriprThrHisProProThrIlePheIleTrpAppProserGlyValGluGln	540
Q <sub>y</sub>	1642	GGTGGCTTTGTAGTGACAAAAACACCAAAATGGCTTACCTCCAAATCCCAGGCATTGCT	1701
D <sub>b</sub>	541	AsnGlyPheIleLeuAaspThrThrThrLysValAlaTyrlauGlnValProGlyThrAla	560
Q <sub>y</sub>	1702	AAGGTTGGCAGCTTGGAAATACAGCTCGAACGAAGTCACAAACTTGACCTGACTGTCT	1761
D <sub>b</sub>	561	LysValGlyPheTrpLysTrpSerIleGlnAlaSerSerGlnThrLeuThrLeuThrVal	580
Q <sub>y</sub>	1762	AGTCCCGTGGCTCCAATGTCTACCTCGCTCCAAATTACAGTAGCTTCCAAAACGAACAAG	1821
D <sub>b</sub>	581	ThrSerArgAlaAlaSerAlaThrLeuProProlleThrValThrProValValAsnLys	600
Q <sub>y</sub>	1822	GACACAGCAAAATCCCGAGCCTCTGGTAGTTATGCAATAATTCGCCAAGAGCCTCC	1881
D <sub>b</sub>	601	AsnThrGlyLysPheProSerProValThrValTyrlaSerIleArgGlnGlyAlaSer	620
Q <sub>y</sub>	1882	CCAAATTCAGGGCCAGGTCACAGCCCTGATTCAATCAGTGAATGGAAAAACAGTTACC	1941
D <sub>b</sub>	621	ProlleLeuArgAlaSerValThrAlaLeuileGluSerValAsnGlyLysThrValThr	640
Q <sub>y</sub>	1942	TTGAACTACTGGTAATGGAGCAGGTGCTGATCTACTAAGATGACGGTGTCTACTCA	2001
D <sub>b</sub>	641	LeuGluLeuLeuAaspAsnGlyAlaGlyAlaAspAlaThrLysAsnAspGlyValTyrlSer	660
Q <sub>y</sub>	2002	AGGTATTTCACAACTTATGACAGAAATGGTAGATACAGTGTAAAGATGGCGGCTCTGGCA	2061
D <sub>b</sub>	661	ArgPheThrAlaPheAspAlaAsnGlyArgTyrlSerValLysIleTrpAlaLeuGly	680
Q <sub>y</sub>	2062	GGAGTTAAGCGCAGCAGCAGGAGTGATACCCGACGAGTGGAGCATGTACAFACCT	2121
D <sub>b</sub>	681	GlyValThrSerAspArgGlnArgAlaalaProProLysAsnArgAlaMetTyrlleAsp	700
Q <sub>y</sub>	2122	GGCTGGATTGAGATGATGAATACAAATGAAATCCACCAAGACCTCAAAATTAATAGGAT	2181
D <sub>b</sub>	701	GlyTrpileGluAspGlyGluValArgMetAsnProArgProGluThrSerTyrl---	719
Q <sub>y</sub>	2182	GATGTTCAACACAGCAAGTGTGTTTCAGCAGAACATCTCTCGGAGGCTCATTTGTGGCT	2241
D <sub>b</sub>	720	---ValGlnAspLysGlnLeuCysPheSerArgThrSerSerGlyGlySerPheValala	738
Q <sub>y</sub>	2242	TCTGATCTCCCA--AATGCTCCCATACCTGATCTCTTCCACCTGGGCCAAATCCAGAC	2298
D <sub>b</sub>	739	ThrAsnValProalalaAlaProIleProAspLeuPheProCysGlnIleThrAsp	758
Q <sub>y</sub>	2299	CTGAAGCGGAAATTACGGGGGCGAGTCTCAATTAATCTGACTTGACAGCTCTCGGGAT	2358
D <sub>b</sub>	759	LeuLysAlaSerIleGlnGlyGlnAsnLeuValAsnLeuThrTrpThrAlaProGlyAsp	778
Q <sub>y</sub>	2359	GATTATGACCATGGACAGCTCAAGATATATCATTCGAATGAAGTACAGTATTTCTTGAT	2418
D <sub>b</sub>	779	AspTyrlAspHisGlyArgAlaSerAsnTyrllelleArgMetSerThrSerIleValAsp	798
Q <sub>y</sub>	2419	CTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGTCTCATCCCCAAGGAA	2478
D <sub>b</sub>	799	LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuIleProLysGlu	818
Q <sub>y</sub>	2479	GCOACTCTGAGGAAGCTTTTGTGTTTAAACAGAAAAACATTACTTTTTGAAATGGCACA	2538
D <sub>b</sub>	819	AlaSerSerGluGluillePheGluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr	838
Q <sub>y</sub>	2539	GATCTTTTCAATGCTATTGAGCTGTGTGAAGTGCATCTGAAATCAGAATATCCAAC	2598
D <sub>b</sub>	839	AspIlePheIleAlaIleGlnAlaValAspLysSerAsnLeuLysSerGluIleSerAsn	858
Q <sub>y</sub>	2599	ATTGACAGAGTATCTTTGTTTATTCTCCAGAGCTCCGACAGACACCTAGTCTGAT	2658

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Db      859 IleAlaArgValSerValPheIleProAlaGlnGluPro-----ProlleProGlu 875
QY      2659 GAAAGCTTGTCTCTTCCTAAATATTCATATCAACGACCATTCCTGGCATTACATT 2718
Db      876 AspSerThrProProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal 895
QY      2719 TTAATAAATATGTGGAATGAGATGAGAACTGCAGCTGTCAATA 2763
Db      896 LeuIlyIleMetTrpLysTrpLeuGlyGluMetGlnValThrLeu 910

RESULT 6
US-10-270-595-2
; Sequence 2, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-270-595-2

Alignment Scores:
Pred. No.: 1,96e-309 Length: 913
Score: 3656.50 Matches: 694
Percent Similarity: 86.99% Conservative: 102
Best Local Similarity: 75.85% Mismatches: 112
Query Match: 71.98% Indels: 7
DB: 4 Gaps: 4

US-09-049-696-18 (1-2813) x US-10-270-595-2 (1-913)
QY      25 ATGGGGCCCATTTTAAGAGTCTGTGTTCATCTTGATCTTCACCTTCTAGAGGGCCCTG 84
Db      1 MetGluSerLeuLysSerProValPheLeuLeuIleLeuHisLeuLeuGluGlyValLeu 20
QY      85 ACTAATTCATCATTCAGCTCAACCAATGGCTATGAAGGCATTGTTCGTTGCAATCGAC 144
Db      21 SerGluSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValIleAlaIleAsp 40
QY      145 CCCAATGTGCCAGAGATGAACACTATTCAACAATAAAGACATGTGACCCAGGCA 204
Db      41 HisAspValProGluAspGluAlaLeuIleGlnHisIleLysAspMetValThrGlnAla 60

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	;	LENGTH:	917	amino acids	
	;	TYPE:	amino acid		
	;	STRANDEDNESS:	single		
	;	TOPOLOGY:	linear		
	;	MOLECULE TYPE:	No.	6368792e	
	;	US-09-049-698-41			
		Alignment Scores:			
	Pred. No.:	1_12e-240	Length:	917	
	Score:	2866.50	Matches:	562	
	Percent Similarity:	75.0%	Conservative:	123	
	Best Local Similarity:	61.56%	Mismatches:	217	
	Query Match:	56.43%	Indels:	11	
	DB:	3	Gaps:	8	
		US-09-049-696-18 (1-2813) x US-09-049-698-41 (1-917)			
QY	25	ATGGGGCCATTAAAGAGTCTGTGTTTCATCTTGATCTTTCACCTTAGAAGGGGCCCTG	84		
Db	1	MetGlyLeuPheArgGlyPheValPheLeuLeuValLeuCysLeuLeuHisGlnSer---	19		
QY	85	AGTAATTCACTCATTCAGCTGAACAACAATGCCTATGAAGCATTGTCGTGCAATCGAC	144		
Db	20	AnThrSerPheIleGlySerAsnAsnGlyPheGluAspIleValIleValIleAasp	39		
QY	145	CCCAATGTGCCAGAAGATCAAACACTATTCCAACAAAATAAAGGACATGGTACCACGCCA	204		
Db	40	ProSerValProGluAspGluLysIleIleGluInIleGluAspMetValThrThraLa	59		
QY	205	TCTCTGATCTGTTGAAGCTACAGGAAGCGATTATTTCAAAATGTTGCCATTTTG	264		
Db	60	SerThrTyrrLeuPheGluAlaThrGluLysargPhePhePhylsAsnValSerIleLeu	79		
QY	265	ATTCTGAAACATGAAGACAAAGGCTGACTATGTGAGACCAAAACTTGAGACCTCAAA	324		
Db	80	IleProGluAsnTrpLysGluAsnProGlnTyrrLysargProLysHisGluAsnHisLys	99		
QY	325	AATGCTGATGTTCTGGTGTGAGTCTACTCCTCCAGGTAAATGATGAACCTACACTGAG	384		
Db	100	HisAlaAspValIleValAlaProProThrLeuProGlyargAspGluP-oTyrrThrLys	119		
QY	385	CAGATGGCAACTGTGGAGAGAAGSGTGAAGGATCCACCTCACTCCTCGATTTCATTGCA	444		
Db	120	GlnPheThrGluCysGlyGluLysGlyGluTyrrIleHisPheThrProAspLeuLeuLeu	139		
QY	445	GGAAAAAGTTAGCTGAATATGGACCAAGGTAGGCGATTTGTCCATGATGGGCTCAT	504		
Db	140	GluLysLysGlnAsnGluTy-GlyProProGlyLysLeuPheValHisGluTrpAlaHis	159		
QY	505	CTACCATGGGAGATTTGACGAGTACAATATGATGAGAAATTCACATTATCCAATGGA	564		
Db	160	LeuArgTrpGlyValPheAspGluTy-AsnGluAspGlnProPheTyrrArgAlaLysSer	179		
QY	565	---AGATACAAAGCAGTAAGATGTTTCACAGGATTA-TACTGGTACAAATGATGATAAAG	621		
Db	180	LysLysIleGluAlaThrArgCysSerAlaGlyIleSerGlyargAsnArgValTyrrLys	199		
QY	622	TGTCAGGAGGACGCTGTTACACCAAAAGATGCAATCAATCAATAAAGTAACAGGACTCAT	681		
Db	200	CysGlnGlyGlySerCysLeuSerArgAlaCysArgIleAaspSerThrThrLysLeuTyrr	219		
QY	682	GAAMAAGGATGTGAGTTGTTTCTCCAATCCCGCACGAGAGGCTTCTATAATGTTT	741		
Db	220	GlyLysAspCysGlnPhePheProAspLysValGlnThrGluLysAlaSerIleMetPhe	239		
QY	742	GCACAACATGTTGATCTTATAGTTGAATCTCTGTACAGAACAAACACCAAAAGAGCT	801		
Db	240	MetGlnSerIleAaspSerValValGluPheCysAsnGluLysThrHisGlnGluAla	259		
QY	802	CCAAACAGCAAAATCAAATGCAATCTCCGAAGCACATGGGAAGTGTATTCGTGATTC	861		
Db	260	ProSerLeuGlnAsnIleLysCysAsnPheArgSerThrTrpGluValIleSerAsnSer	279		



## : FEATURE:

; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal  
 ;  
 ; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-  
 ; OTHER INFORMATION: 31026)  
 US-09-193-562D-46

Alignment Scores:

Pred. No.:	1.62e-205	Length:	903
Score:	2462.50	Matches:	494
Percent Similarity:	71.04%	Conservative:	139
Best Local Similarity:	55.44%	Mismatches:	233
Query Match:	48.47%	Indels:	25
DB:	3	Gaps:	13

US-09-049-696-18 (1-2813) x US-09-193-562D-46 (1-903)

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1	MetValProArgLeuThrValIleLeuPheLeuThrLeuHisLeuLeuProGly--Met	19	Db
85	AGTAATTCACATTCATTACGCTCAAAACAATAUGGCTATCAAGGCATTGTCGTTCGAATCGAC	144	QY
20	LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn	39	Db
145	CCCAATGTGCAGAGATGAACAACCTCATTCACAAATAAAGACATGTGTGACCCAGCGA	204	QY
40	ProSerValProGluAspGlyLeuIleGlnAsnIleLysGluMetValThrGluAla	59	Db
205	TCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTTCAAAATGTTGCCATTTTG	264	QY
60	SerThrTyrLeuPheHisAlaThrLysArgArgValTyrPheArgAsnValSerIleLeu	79	Db
265	ATTCTGGAACATGGAAAGACAAAGCGTGACTATGTGAGACCAAAACTTGAGACTCAAA	324	QY
80	IleProMetThrTrpLysSerLysSerGluTyrLeuMetProLysGlnGluSerTyrAsp	99	Db
325	AATCCTGATCTTCGTGTGCTGAGTCTACTCTCCAGGTAAATGATGAAACCTTACATGAG	384	QY
100	GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeu	119	Db
385	CAGATGGGCACTGTGAGAGAGCGGTGAAGAGTCCACCTCACTCCTGATTTTCATTGCA	444	QY
120	GlnTyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeu	139	Db
445	GGAAAAAGTTAGCTGATGAATGAGCACAAAGGTAGGCAATTTCTCCATGAGTGGGCTCAT	504	QY
140	ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHis	159	Db
505	CTACGATGGGAGTATTTGACGAGTACAAATAATGATCAGAAATCTCACTATATCC---	561	QY
160	LeuArgTrpGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg	179	Db
562	GGAAAGATACAAGCAGTAAGATGTTTCAGCAGGTATTACTGGTACAAATGTAGTAAGAAG	621	QY
180	AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys	199	Db
622	TGTCAGGAGCGACGTGTTCACACCAAAAGATGCACATTCATAAAGTACACAGACTTAT	681	QY
200	CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr	219	Db
682	GAAAAGAGATGTGAGTTGTTTCTCCAAATCCGGCCAGCAGAGAGCTTCTATATGTTT	741	QY
220	GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe	239	Db
742	GCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACAAACACCAAGAAAGCT	801	QY
240	MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla	259	Db
802	CCAAACAAGCAAAATCAAAATCCAATCTCCGAGCAGACATGGGAAGTGCATCGTGATCT	861	QY
260	ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer	279	Db
862	GAGGACTTTAAGAAACCACTCCTCATGACA-----ACACAGCCACCAAAACCCACCTTC	915	Y

Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657  
Qy 1975 GCTACTAAGGATGACGGGTGCTACTCAAGGTATTTCAACAATTATGACACGAATGGTAGA 2034  
Db 658 AlaThrLysAspAspGlyValTy-SerArgTyrPheThrThrTyrAspThrAsnGlyArg 677  
Qy 2035 TACAGTGTAAGTGGCGGCTCTGGGAGGATTAACGACGACGACGAGAGTATACCC 2094  
Db 678 TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
Qy 2095 CAGCAGAGTGGAGCAGCTACATACCTCGCTGGATTGAGATGATGATGATGATGATGAT 2154  
Db 698 ProGlnAsnLysAlaLeuTyPheProGlyTyrLeuGluAsnGlyLysLeuLeuLeu 717  
Qy 2155 CCACCAAGCAGCTGAAATTAAGATGATGTTCAACAACAAGCAAGTG---TGTTTCAGC 2211  
Db 718 ProProArgProGluVal--LysAspAspLeuAlaLysAlaGluLeuGluAspPheSer 736  
Qy 2212 AGAATCATCTCGGAGGCTCATTTGCTGCTTCTGATGTCCTCAATGCTCCCATCTCAT 2271  
Db 737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
Qy 2272 CTCTCCACCTGGCGCAATACCCAGCTGAGGCG-----GAAATTCACGGGGC 2322  
Db 757 ValLeuProProAsnLysLeuThrAspLeuGluAlaLysPheLysGluAspHis----- 774  
Qy 2323 AGTCTCATTAACTGACTTGGACAGCTCTCTGGGGATGATTATGACCATGGACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTyrThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
Qy 2383 AAGTATATCATCTGAAATGATACAGTATCTTGATCTTCAGAGACAGCTCAATGAATCT 2442  
Db 793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla 812  
Qy 2443 CTTCAGTGAATACTACTCTCTCATCCAAAGGAGGCAACTCTGAGGAGCTCTTTTG 2502  
Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832  
Qy 2503 TTAAACCAAGAAACATTACTTTTCAAAATGGCAGACAGATCTTTTCAATGCTATCAGGCT 2562  
Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
Qy 2563 GTTGATAGCTCGATCTGAAATCAGAAATATCCACATTCACAGTTCAGGAGTATCTTTGTTATT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaLysPheIle 872  
Qy 2623 CTCCACAGACTCCGCGAGACACCTAGTCTCT 2655  
Db 873 Pro-----MetProGluAspSerValPro 880

## RESULT 9

US-10-055-412B-46

; Sequence 46, Application US/10055412B

; Patent No. 6692939

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0058

; CURRENT APPLICATION NUMBER: US/10/055,412B

; PRIOR FILING DATE: 2001-10-29

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 46

; LENGTH: 903

; TYPE: PRT

; ORGANISM: Unknown

; FEATURE:

; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal

; OTHER INFORMATION: (Cunningham et al., 1995, J. Biol. Chem., 270:31016-31026)

US-10-055-412B-46

Alignment Scores:

Pred. No.: 1,62e-205 Length: 903

Score: 2462.50 Matches: 494

Percent Similarity: 71.04% Conservative: 139

Best Local Similarity: 55.44% Mismatches: 233

Query Match: 48.47% Indels: 25

DB: 4 Gaps: 13

US-09-049-696-18 (1-2813) x US-10-055-412B-46 (1-903)

Qy 25 ATGCGGGCCATTAAAGAGTTCTGTTCATCTTGTATCTTACCTTCTAGAAAGGGCCCTG 84  
Db 1 MetValProArgLeuThrValIleLeuPheLeuHisLeuLeuProGly--Met 19  
Qy 85 AGTAATTCACATTCATTAGCTGACCAACAATCGCTATGAAGCATTTGCTGTGCAATGAC 144  
Db 20 LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn 39  
Qy 145 CCCAATGTCGACAGATGAACACTCATTCACAATAAAGACATGCTGACCCAGCA 204  
Db 40 ProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMetValThrGluAla 59  
Qy 205 TCTCTGATCTGTTGAAGCTACAGGAAGCGATTATTTCAAAAATGTTGCCATTTTG 264  
Db 60 SerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsnValSerIleLeu 79  
Qy 265 ATTCCTGAACATGGAAGCAAGCTGACTATGTGAGACCAAACTTGACCTACAA 324  
Db 80 IleProMetThrTyrLysSerLysSerGluTyrLeuMetProLysGlnGluSerTyrAsp 99  
Qy 325 AATGCTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 384  
Db 100 GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeu 119  
Qy 385 CAGATGGCAACTGTGGAGAGAGGCTGAAAGGATCCACCTCCTCTGATTTCATTGCA 444  
Db 120 GlnTyrGlyArgCysGlyGluLysGlyIleHisPheThrProAsnPheLeuLeu 139  
Qy 445 GGAATAAGTTAGCTGAATATGGACCAAGAAGTAGGCTATTTGCTCCATGAGTGGCTCAT 504  
Db 140 ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHis 159  
Qy 505 CTACATCGGGAGTATTTGACGAGTACATAATATGATGAGAAATTTCTACTTATCC---AAT 561  
Db 160 LeuArgTyrGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg 179  
Qy 562 GGAAGAATACAGCAGTAAAGATGTTTCAGCAGGATTTACTGTGTCACAAATGTAGTAAGAG 621  
Db 180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys 199  
Qy 622 TGTCCAGGAGGAGCTGTTTACACCAAAAGATGCACATTCATATAAGTAAACAGGACTCAT 681  
Db 200 CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr 219  
Qy 682 GAAAGAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 741  
Db 220 GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe 239  
Qy 742 GCACAACATGTTGATTCTATAGTTGAAATTTCTACAGAACAAACCAACAAAGAGCT 801  
Db 240 MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla 259  
Qy 802 CCAAAACAGCAAAATCAAAATGCAATCTCCGACGACATGGGAAGTGCATCGTGTATCT 861  
Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTyrTrpAspValIleMetAsnSer 279  
Qy 862 GAGGACTTTAAGAAAACCACTCTCTATGACA-----ACACAGCCCAAAATCCACCTTC 915  
Db 280 ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProThrGlnProThrPhe 299  
Qy 916 TCATTGCTGACGATTGGCAAGAAATGTGTGTAGTCTCTTGACAAATCTGGAAGCATG 975



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Db      300 SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319
      976 GCGACTGTAAACCGCTCAATCGACTGAATCAGCAGCCAGCTTTCTCTGCTGTCAGACA 1035
      320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaAlaGluLeuPheLeuGlnIle 339
      1036 GTTGAAGTGGGCTCTGGTGGATGGTGCATTTGACAGTGGTCCCATGTACAAAGT 1095
      340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359
      1096 GAATCATACATAGATAAAGCAGTGGCAGTGCAGGACACACATCCGCCAAAGATTACTCTGCA 1155
      360 AsnLeuThrLysIleThrAspAsnValThrGluAsnIleThrAlaAsnLeuProGln 379
      1156 GCAGCTTCAGAGGAGCTGCATCTGCAGCGGCTTCGATCGGCAATT---ACTGTGATT 1212
      380 GluAlaAsnGlyGlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIle 399
      1213 AGGAAGAAATATCCAACTGATGGATCTGAATTTGTCTGTGACGATGGGGAGACAAAC 1272
      400 GlnSerGlnGlnSerThrSerGlySerGluLeuIleLeuLeuThrAspGlyGluAspAsn 419
      1273 ACTATAAGTGGGTGTTTAAAGAGTCAAAAGAGTGGTCCATCATCCACACAGTGGCT 1332
      420 GluIleHisSerCysIleGluGluValLysGlnSerGlyValIleIleHisThrValAla 439
      1333 TTGGGGCCCTCGCAGCTCAGAACTAGACAGAGTGTCCAAATGACAGAGGAGTTTACAG 1392
      440 LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArg 459
      1393 ACATATGCTTCAGATCAAGTTTCAGAAACATGGCTCATTTGATGCTTTTGGGGCCCTTTCA 1452
      460 PheTyrAlaAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477
      1453 TCAGGAATGAGCTGTCTCAGCTGCTCCATCCAGCTTGAGAGTAAGGGATTAACCCCT 1512
      478 SerArgSerGlySerIleThrGlnGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle 497
      1513 CAGAACAGCCAGTGCATGATGACAGTGCATGATGATGATGATGATGATGATGATGATGAT 1572
      498 ThrGluLysLysTrpValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr 517
      1573 TTGTTTCTTATCAGCTGACAAACAGCAGCTCCCAATCTCTCTGATCCAGTGGGA 1632
      518 PhePheValValThrTrpThrIleLysLysProGluLeuLeuGlnAspProLysGly 537
      1633 CAG-----AGCAAGTGGCTTTGTAGTGACAAA---AACACCAAAATGGCCCTACCTC 1693
      538 LysLysTyrLysThrSerAspPheLysGluAspLysLeuAsnIleHisSerAlaArgLeu 557
      1684 CAATCCAGCATTTGCTTAAGTTGGCACTTGGAAATACAGTCTG-----CAAGCA 1734
      558 ArgIleProGlyIleAlaGluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAla 577
      1735 AGTCAAAACCTTGACCTGACTGTGACGTCCTGCGTCCATGCTACCTCCCTCCCA 1794
      578 SerProGlnIleLeuThrValThrValThrValThrValThrValThrValThrValThr 597
      1795 ATTACATGACTTCCAAAACGAAACAGGACACCAAGCAAAATTCGCCACCTCTGTGATGT 1854
      598 ValThrAlaThrAlaHisMetAsnGlnAsnThrAlaHisTyrProSerProValIleVal 617
      1855 TATCAAAATATTCGCCAGGAGCTCCCAATTCATGAGGCGCAGTGTACAGCCCTGATT 1914
      618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIle 637
      1915 GAATCAGTGAATGAAAAACAGTTTACCTTGCACTTCTGGATATATGAGCAGGAGTGTGAT 1974
      638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657
      1975 GCTACTAAGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACAGCAATGGTAGA 2034

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Db      658 AlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArg 677
      2035 TACAGTGTAAAGTGGGGCTCTGGAGAGTTTAAACGAGCCAGCAGGAGAGTATATCCC 2094
      678 TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697
      2095 CAGCAGAGTGGAGCAGCTACATACCTGGCTGGTGGATGGATGATGATGATGATGATGATGAT 2154
      698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleIleLeuAsn 717
      2155 CCACCAAGACCTGAAATTAATAGGATGATGTTTCAACACCAAGCAAGTG---TGTTTCAGC 2211
      718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleGluAspPheSer 736
      2212 AGACATCTCTGGAGGCTCATTTTGGTGTCTGATGTCCTCAATGTCCTCCATACCTGAT 2271
      737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProGlyAsnHisProSer 756
      2272 CTCTTCCCACTGGCCAAATCACCAGCTGAAAGCG-----GAAATTCACGGGGGC 2322
      757 ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis----- 774
      2323 AGTCTCTATTATCTGACTTGGACAGCTCTCTGGGATGATTTATGACCATGGAACAGCTCAC 2382
      775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792
      2383 AAGTATATCATTCGAATTAAGTACAGTATTCTTGTATCTCAGACACAAAGTTCATGAATCT 2442
      793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla 812
      2443 CTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGGCACTCTGAGGAGTCTTTTGT 2502
      813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerGluAsnPheGlu 832
      2503 TTTAAACCAAGAAACATTACTTTTGAATAATGGCAGACATCTTTTCATTGCTATTTCAGCT 2562
      833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852
      2563 GTTCATTAAGTGCATCTGAAATCAGAAATATCCAAATTCAGCAATGTCAGCAGTATCTTTTATT 2622
      853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872
      2623 CTTCCACAGACTCGCCAGACAGACACCTAGTCTCT 2655
      873 Pro-----MetProGluAspSerValPro 880

RESULT 10
US-09-623-624-18
; Sequence 18, Application US/09623624
; Patent No. 6576434
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473

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Db 160 LeuArgTrpGlyIlePheAspGluTyraSnglyAspGlnProPheTyrlleSerArgArg 179  
Qy 562 GGAAGATATACAGCAGTAAAGTGTTCACAGAGTATTACTGTGTACAAATGTGTAAAGAG 621  
Db 180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleVallys 199  
Qy 622 TGTGAGGAGGAGCAGTGTATACCAAAAGATGCACATTCATAAAGTAAACAGGACTCTAT 681  
Db 200 CysGlnGlySerCysIleThrProCysArgArgAspSerGlnThrGlyLeuTy 219  
Qy 682 GAAAGAGATGTAGTGTCTCCAAATCCCGCAGACGAGGAGGCTCTATAATGTTT 741  
Db 220 GluAlaLysCysThrPheIleProGlyLysSerGlnThrAlaArgGluSerIleMetPhe 239  
Qy 742 GCACAACATGTGATTCATAGTTCGAATTCGTATCAGAACAAACCAACAAAGAGCT 801  
Db 240 MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla 259  
Qy 802 CCMAACAGCAAAATCAAAATGCAATCTCCGAAGCACATGGAAGTATCGTGATTC 861  
Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer 279  
Qy 862 GAGGACTTTAAGAAAACCACTCCTATGACA-----ACACAGCCACCAATCCACCTTC 915  
Db 280 ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProProThrGlnProThrPhe 299  
Qy 916 TCATTGTCGAGATTGGACAAAGAAATGTGTGTAGTCTTGTGACAAATCTGGAAGCATG 975  
Db 300 SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319  
Qy 976 GGCAGCTGTAACCGCTCAATCGACTGAATCAAGCAGGCGCAGCTTCTCTGCTGCAGACA 1035  
Db 320 SerSerGluAspArgLysPheArgMetAsnGlnAlaAlaGluLeuPheLeuIleGlnIle 339  
Qy 1036 GTTGAGCTGGGCTCTGGGCTGGGATGTGACATTTGACAGTGTGCGCCATGTACAAAGT 1095  
Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
Qy 1096 GAACTCATACAGATAACAGTGGCAGTGCAGGACACACTCGCCMAAGATTAACCTGCA 1155  
Db 360 AsnLeuThrLysIleThrAspAsnValTyrgluAsnIleThrAlaAsnLeuProGln 379  
Qy 1156 GCAGCTTCAGGGAGGAGTCCATCTGCAGCGGCTTCGATCGCATTT--ACTGTGATT 1212  
Db 380 GluAlaAsnGlyIleThrSerIleCysArgGlyLeuLysAlaIlePheGlnAlaIleIle 399  
Qy 1213 AGGAAGAAATATCCAACTGATGATCTGAAATGTCTGCTGACGGATGGGAAGACAAC 1272  
Db 400 GlnSerGlnGlnSerThrSerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsn 419  
Qy 1273 ACTATAGTGGGTGCTTTAACGAGTCAACAAAGTGGTGGCCATCATCCACAGTCGCT 1332  
Db 420 GluIleHisSerCysIleGluGluValLysGlnSerGlyValIleIleHisThrIleAla 439  
Qy 1333 TTGGGCGCTCTGCAGTCAAGAACTAGAGGAGCTGTCCAAATATGACAGAGTGTTCACAG 1392  
Db 440 LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyIleHisArg 459  
Qy 1393 ACATATGCTTCAGATCAAGTTCAGAAATGGCCTCATTCATGCTTTTGGGCGCTTCA 1452  
Db 460 PheTyraAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477  
Qy 1453 TCAGGAATAGGAGTGTCTCTCAGCGCTCCATCCAGTTCAGAGTAAAGGATTAACCCCTC 1512  
Db 478 SerArgSerGlySerIleThrGlnGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle 497  
Qy 1513 CAGAACAGCAGTGGATGAATGTCACAGTGCATCGTGGACAGCACCGCTGGGAAGGACACT 1572  
Db 498 ThrGluLysLysTrpValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr 517  
Qy 1573 TTGTTTCTTATCCTGGACAGCAGCCTCCCAAAATCCTCTCTGGGATCCGATGGA 1632  
Db 518 PhePheValValThrTrpThrIleLysLysProGluIleLeuLeuGlnAspProLysGly 537

Qy 1633 CAG-----AGCAAGGTGGCTTTGTAGTGACAAA---AACACCAAAATGCGCTACCTC 1683  
Db 538 LysLysTyrlleThrSerAspPheLysGluAspLysLeuAsnIleHisSerAlaArgLeu 557  
Qy 1684 CAATCCAGGCATTTGCTTAAGCTTGGCACTTGGAAATACAGTCTG-----CAACA 1734  
Db 558 ArgIleProGlyIleAlaGluThrGlyThrTrpThrTyrlleSerLeuLeuAsnHisAla 577  
Qy 1735 AGCTCACAACCTTGACCCCTGACCTGTACGTCCCGTGGTCCATGCTACCTGCTGCTCA 1794  
Db 578 SerProGlnIleLeuThrValThrValThrArgAlaArgSerProThrThrProPro 597  
Qy 1795 ATTACAGTGTCTCCAAAACGACACAGACACCAAAATTTCCCGAGCCCTCTGTGTAGT 1854  
Db 598 ValThrAlaThrAlaHisMetSerGlnAsnThrAlaHisTyrlleProSerProValIleVal 617  
Qy 1855 TATGCAAAATATTGCGCAAGGAGCCTCCCAATTTCTCAGGGCCAGGTGCACAGCCTGAT 1914  
Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIle 637  
Qy 1915 GAACTAGTGAATGNAACACAGTTCACCTTGGAACTACTGGTAATGAGCAGGCTGCTGAT 1974  
Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657  
Qy 1975 GCTACTAAGGATGACGGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAATGCTAGA 2034  
Db 658 ThrValLysAsnAspGlyIleTyrlleSerArgTyrllePheThrAspTyrlleArgLysGlyArg 677  
Qy 2035 TACAGTGTAAAGTCCGGGCTCTGGGAGGAGTTAAACGACGACGAGGAGATGATATACC 2094  
Db 678 TyrSerLeuLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
Qy 2095 CAGCAGATGGAGCTGTACATACCTGCTGCTGATGAGATGAGATGAGATGAGATGAGAT 2154  
Db 698 ProGlnAsnLysAlaLeuTyrlleProGlyTyrlleGluAsnGlyLysIleLeuAsn 717  
Qy 2155 CCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAACCAAGTG---TGTTTCAGC 2211  
Db 718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleLysAlaAspPheSer 736  
Qy 2212 AGAATCCTCGGGAGGCTCATTTGTGCTTCTGATGTCCCAATGCTCCCACTGAT 2271  
Db 737 ArgLeuThrSerGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
Qy 2272 CTCCTCCACCTGGCCCAATCACACCTGAGGCG-----GAAATTCACGGGCGC 2322  
Db 757 ValLeuProProAsnLysIleIleAspLeuGluAlaLysPheLysGluAspHis----- 774  
Qy 2323 AGTCTCATTAACTGACCTTGGACAGCTCCTGGGAGTATTATGACCATGGAACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTrpThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
Qy 2383 AAGTATATCATTCGAATAAGTACAGTATTCTTGTATCTCAGACAGAGTTCATGATCT 2442  
Db 793 SerTyrlleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla 812  
Qy 2443 CTTCAAGTCAATACTCTCTCATCCCAAGGAGCCAACTCTGAGGAGTCTTTTGTG 2502  
Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832  
Qy 2503 TTTTAAACCAAGAAACATTACTTTTGAATAATGGCAGATCTTTTTCATCTTATTCAAGCT 2562  
Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrlleAlaValGlnAla 852  
Qy 2563 GTTGATAAGGTGATCTGAAATCAGAAATATCAACATTCAGCAGATCTTTTGTATT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaIleLysPheIle 872  
Qy 2623 CCTCCACAGACTCCGCGCAGACACCTAGTCTCT 2655  
Db 873 Pro-----MetProGluAspSerValPro 880

## RESULT 12

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US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.:      8,228-194      Length:      905
Score:          2328.00      Matches:    465
Percent Similarity: 69.84%      Conservative: 144
Best Local Similarity: 53.33%      Mismatches: 247
Query Match:      45.83%      Indels:     16
DB:                3          Gaps:        11

US-09-049-696-18 (1-2813) x US-09-193-562D-2 (1-905)
QY 46 GTGTTCATCTGATCTTCACTTCTAGAGGGGCCCTGAGTAATCACTCATTGAGCTG 105
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 8 IleuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACAAATGCTATGAGGAGGATGTCGTGCAATCGACCCCAATGTCACAGAGATGAA 165
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 27 IleAsnAsnGlyTyAspGlyLeValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATCTATCAACAATAAGACATGTCGACCCAGGAGTCTCTGATCTGTTGAAGCT 225
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyLeuPheHisAla 66
QY 226 ACAGGAAGCGATTTATTTCAAAAATGTCCTCAATTCGATTCCTGAAACATGACACA 285
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 67 ThrLysArgArgValTyPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
QY 286 AAGCTGACTATGTGAGACCAAACTTGAGACCTACAAAAATGCTGATGTTCTGTTGCT 345
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Db 87 LysSerGluTyPheIleProLysGlnGluSerTyAspGlnAlaAspValIleValAla 106
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCTTACCTGAGCAGATGGGCACTGTGGAGAG 405
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Db 107 AsnProTyLeuLysTyTyGlyAspAspProTyThrLeuGlnTyArgCysGlyGlu 126
QY 406 AAGGTCGAAAGGATCCACCTCCTCCTGATTCATTCGAGAAATAAGTTAGCTGAATAT 465
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Db 127 LysGlyLysTyThrIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTy 146
QY 466 GGACCACAAGTAGGGCATTGTCATGAGTGGGCTCATCTACCATGGGAGATTTTGAC 525
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACATAATGATGAGAAATTTCTATTATCC---AATGGAAGAATACAGCAGTAAAGA 582
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 167 GluTyAsnValAspGlnProPheTyIleSerArgLysAsnThrIleGluAlaThrArg 186
QY 583 TGTTACAGAGGTATTACTGTGACAAATAGTAGTA---AAGAGTCTCAGGAGGAGGAGCTGT 639
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206
QY 640 TACACCAAAAGATGCACATTCATTAAGATTAACAGGACTCTATGAAAAGGATGTGAGTTT 699
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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Db 207 IleThrSerLeuCysArgArgAspSerGlnThrGlyLeuTyLeuAlaLysCysThrPhe 226
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 700 GTTCTCCAATCCCGCAGACGAGAGGCTTCTATAATGTTTGCACAAACATGTTGATCT 759
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 760 ATAGTTGTAATCTGTACAGAACAAACCAACAAGAAGCTCCAAACAGCAAAATCAA 819
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 820 AAATGCAATCTCCGAAGCACATGGAAGTGTCTGCTGTCAGACAGTCTTGAAGAAACC 879
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 880 ACTCTATGACA-----ACACAGCCACCAATCCACCTCTCTCATTCGTCAGATTGGA 933
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 934 CAAGAATTGTGTTTGTAGTCTCTGCAAAATCTGGAAGCATGGCGACTGGTAACCGCTC 993
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 994 AATCGACTGAATCAAGCAGGCGCAGCTTTCTGCTGTCAGACAGTGTGAGCTGGGCTCTGG 1053
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 327 PheGlnMetAsnGlnAlaAlaGluLeuTyLeuIleGlnValIleGluLysGlySerLeu 346
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1054 GTTGGGATGTCACATTTGACAGTGTGCTCCCATGTACAAAGTGAACCTCATACAGATAAAC 1113
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1114 AGTGGCAGTGACAGGACACACTCGCCAAAGATTACTCGCAGCAGCTTCAGGAGGACG 1173
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 367 AspAspAsnValTyGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1174 TCCATCTGACGCGGCTTCGATCGGCATTT---ACTGTGATTAGGAGAAATATCCAACT 1230
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleHisSerAspGlnSerThr 406
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1231 GATGGATCTGAATTTGTGCTGCTGACGGATGGGGAAGACACACTATAAGTGGGTGCTTT 1290
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 407 SerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1291 AACAGGTCAAAACAAAGTGTGCCATCATCCACACAGTCGCTTTGGGCGCTCTGCAGCT 1350
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1351 CAAGAACTAGAGGAGCTGCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAA 1410
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyArgPhePheAlaAsnLysAsp 466
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1411 GTTCAGAAACAAATGGCTCTATTGATGCTTTTGGGCGCTTTTCATCAGAAATGGAGCTGC 1470
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1471 TCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACACGCCAGCTGGAT 1530
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1531 AATGGCACAGTGTGTCGACACCGCTGGGAAGACACACTTGTCTTATCATCAGCTGG 1590
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1591 ACAACGCGCTCCCAAAATCTCTCTGGGATCCCAAGTCGACAG-----AAGCAAGGT 1644
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 525 ThrIleGlnLysProGluIleValLeuGlnAsnProLysGlyLysLysTyThrSer 544
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1645 GGCTTTGTAGTGACAAA---AACACCAAAATGGCGCTTACTCCAAATCCAGGACATGCT 1701
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1702 AAGGTTGGCACTTGGAAATACAGTCTG-----CAAGCAAGCTCACAAACCTTGACC 1752
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Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266  
QY 820 AAATGCAATCTCCGAGACATGGAGATGATCCGCTGATCTGAGACTTTAAGAAACC 879  
Db 267 MetCysAsnGlySerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286  
QY 880 ACTCTATGACA-----ACACAGCACCACAAATCCACCTCTTCATTGCTGCAGATTGGA 933  
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLeuLysSerLys 306  
QY 934 CAAAGAAATGTCTTTAGTCTTACAAATCTGGAAGATGCGGACTGGTAACCGCTC 993  
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326  
QY 994 AATCGACTGAATCAACAGCAGCCAGCTTTCTCTGCTGCAGACAGATTGAGCTGGGCTCTGG 1053  
Db 327 PheGlnMetAsnGlnAlaGluLeuLeuLeuLeuGlnValIleGluLysGlySerLeu 346  
QY 1054 GTTGGGATGGTACATTTGACAGTCTGCCATGTPACAAAGTGAATCTATACAGATAAAC 1113  
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366  
QY 1114 AGTGCAGTGACAGGACACACTCCCAAAAGATTACCTGCAGCAGCTTCAGGGGACG 1173  
Db 367 AspAsnValThrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386  
QY 1174 TCCATCTCAGCGGCTTCGATCGSCATTT--ACTGTGATTAGGAAGAAATATCCAACT 1230  
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleHisSerAspGlnSerThr 406  
QY 1231 GATGGATCTGAATGTGCTCTGACGGATGGGAAGACACACTATAAGTGGTGTCTT 1290  
Db 407 SerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426  
QY 1291 AACGAGCTCAACAAAGTGGTGCATCATCCACAGTCGCTTTGGGCGCTCTGACGCT 1350  
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446  
QY 1351 CAAGAACTAGAGGAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAA 1410  
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAsp 466  
QY 1411 GTTCAGAACAAATGCTCATGATGCTTTGGGCGCTTTTCATCAGGAATGAGCTGTC 1470  
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484  
QY 1471 TCTCAGCGCTCCATCCAGCTTGAGATGAGGATTAACCTCCAGACAGCAGCTGATG 1530  
Db 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504  
QY 1531 AATGGCACAGTGTGTCGTCGATCCAGTCCAGTGCAGAC-----AACCAAGGT 1644  
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524  
QY 1591 ACAACGAGCTCCCAAAATCTCTCTGATCCAGTCCAGTGCAGAC-----AACCAAGGT 1644  
Db 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysLysTyrLysThrSer 544  
QY 1645 GGCTTTGTAGTGACAAA---AACACAAATAGCCCTACCTCCAAATCCAGGATGCT 1701  
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564  
QY 1702 AAGGTTGGCACTTGGAAATACAGTCTG-----CAACCAAGCTCACAAACCTTGACC 1752  
Db 565 GluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThr 584  
QY 1753 CTGACTGTACGTCCTGCGTCCGATGATCCCTGCTGCTCCCAATTCAGTGCATCTCCAAA 1812  
Db 585 ValThrValThrThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604  
QY 1813 ACAGAACAGGACACCAACAAATTCACGAGCTCTGCTGATGTTATGCAATATTCGCAA 1872  
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624

QY 1873 GGAGCCTCCCAATTTCTCAGGCCAGTGTCTCAGCCCTGATTAATGAATCAGTGAATGAAAA 1932  
Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
QY 1933 ACAGTTACTCTGGAACTACTGGATTAATGAGCAGGTGCTGATGCTACTTAAGATGACGGT 1992  
Db 645 GlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664  
QY 1993 GTTACTCAAGTATTTTCCAACTTATCAGCAAGTGTGATACATACAGTGTAAAGTGGCG 2052  
Db 665 IleTyrSerArgTyrPheThrAspTyrGlyAsnGlyArgTyrSerLeuLysValHis 684  
QY 2053 GCTCTGGAGAGATTAAACGACGACGAGAGATGATACCCACAGCAGATGGACACTG 2112  
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeu 704  
QY 2113 TACATACCTGCTGGATGAGATGATCAATACATCAATGGAATCCCAAGACCTGAAAT 2172  
Db 705 TyrValProGlyTyrValGluAsnGlyLysIleLeuAsnProProArgProGluVal 724  
QY 2173 AATAGGATGATGTTTCAACACACAGCAAGTGTGTTTTCAGCAACATCTCCGGAGGCTCA 2232  
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744  
QY 2233 TTTGTGGCTTCTGATGTC---CCAAATGCTCCCATACCTGATCTCTCCACCTGGCCAA 2289  
Db 745 PheThrValSerGlyAlaProProGlyAsnHisProSerValPheProSerLys 764  
QY 2290 ATCACCAGCCTGAAGCGGAAATTCACGGGGCAGTCTCATTATCTGACTTGACAGCT 2349  
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTrpThrAla 783  
QY 2350 CCTGGGATGATTTATGACCATGGAACAGCTCACAAATATATCATTCGAATTAAGTACAAGT 2409  
Db 784 ProGlyAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSer 803  
QY 2410 ATTCTTCACTCAGACAGATTCATGAATCTCTTCAAGTGAATACTACTGCTCTCATC 2469  
Db 804 PheMetAspArgGlnGluAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIle 823  
QY 2470 CCAAGGAAGCCACTCTGAGGAGTCTTTTGTGTTAAACCAAGAAACATTTACTTTGAA 2529  
Db 824 ProLysGluAlaGlySerLysGluAsnPheGluPheLysProGluHisPheArgValGlu 843  
QY 2530 AATGGCACAGATCTTTTTCATGCTTATTCAGGCTGTTGATAGGTTCGATCTGAAATCAGAA 2589  
Db 844 AsnGlyThrLysPheTyrIleSerValGlnAlaIleAsnGluAlaAsnLeuIleSerGlu 863  
QY 2590 ATATCCACATTCGACGAGTATCTTTGTTTATTCCT 2625  
Db 864 ValSerHisIleValGlnAlaLysPheIlePro 875

RESULT 14  
US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 630987  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34  
; LENGTH: 902  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-193-562D-34



Alignment Scores:  
 Pred. No.: 1.65e-193 Length: 902  
 Score: 2324.50 Matches: 479  
 Percent Similarity: 67.90% Conservative: 143  
 Best Local Similarity: 52.29% Mismatches: 257  
 Query Match: 45.76% Indels: 37  
 DB: 3 Gaps: 15

US-09-049-696-18 (1-2813) x US-09-193-562D-34 (1-902)

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Qy 25 ATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTACCTTCTAGAGGGCCCTG 84
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1 MetValProGlyLeuGlnValLeuLeuPheLeuThrLeuHisLeuLeuGlnAsnThr 19
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 85 AGTAATCAGTCATTAGCTGACCAACAAATGGCTATGAAGCATTGTCTGTCATCGAC 144
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 20 GluSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValAlaAlaIleAsn 39
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 145 CCCAATGTCAGAGATGAACACTCATTCACAAATAAAGGACATGTCAGCCAGGCA 204
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 40 ProSerValProGluAspGluArgLeuIleProSerIleLysGluMetValThrGlnAla 59
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 205 TCTCTGATCTGTTGAAGCTACAGAAAGCGATTATTTCAAAATGTTGCCATTTTG 264
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 60 SerThrTyrLeuPheGluAlaSerGlnGlyArgValTyrPheArgAsnIleSerIleLeu 79
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 265 ATTCCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGGAGCCTACAAA 324
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 80 ValProMetThrTyrLysSerLysSerGluTyrLeuMetProLysArgGluSerTyrAsp 99
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 325 AATGCTGATGTTCTGGTCTGCTGAGTCTACTCTCCAGGTATGATGCAACCTTACACTGAG 384
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 100 LysAlaAspValIleValAlaAspProHisLeuGlnHisGlyAspAspProTyrThrLeu 119
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 385 CAGATGGGCACTGTGGAGAGAGGAGGTAAGGATCCACCTCACCTCTGATTCATTCGCA 444
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 120 GlnTyrGlyGlnCysGlyAspArgGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 445 GGAAAAAGTTAGCTGAATATGACCAACAGTAGGCAATTTGTCATGAGTGGGCTCAT 504
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 140 ThrAspAsnLeuArgIleTyrGlyProArgGlyA-gValPheValHisGlnTyrPalaHis 159
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 505 CTACATGGGGATGTTTACAGCTACCAATATGATGAGAAATTTCTACTTATCC--AAT 561
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Qy 160 LeuArgTyrGlyValPheAspGluTyrAsnValAspArgSerProTyrIleSerArgLys 179
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 562 GGAAGAAATACAGCAGTAGTAAAGTGTTCAGCAGGTATTACTGTGACAAATGCTAGTAAAGAG 621
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 180 AsnThrIleGluAlaThrArgCysSerAlaSerIleThrGlyLysLysValValHisGlu 199
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 622 TGTCTAGGAGGAGGCTGTGTACACCAAAAGATGCACATTCATTAAGTAAACAGACTCTAT 681
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Qy 200 CysGlnArgGlySerCysValThrArgAlaCysArgAspSerLysThrArgLeuTyr 219
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 682 GAAAGAGGATGAGTTGTTCTCCAAATCCCGCAGCGAGAGAGGCTTCTATATGTTT 741
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 220 GluProLysCysThrPheIleProAspLysIleGlnThrAlaGlyAlaSerIleMetPhe 239
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 742 GCACAACTGTTGATTCTATAGTCTGAATTCGTGACAGAAACAAACCAACAAAGAGCT 801
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 240 MetGlnAsnLeuAsnSerValValGluPheCysThrGluAsnAsnHisAsnAlaGluAla 259
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 802 CCAAACAGCAAAATCAAAAATGCATCTCCGAGCAGATGGAGTGCCTGATTCCT 861
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 260 ProAsnLeuGlnAsnLysMetCysAsnArgArgSerThrTyrAspValIleLysThrSer 279
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 862 GAGGACTTTAAGAAAAACCACTCTCTATG-----ACAAACAGCCACCAATCCACCTTC 915
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 916 TCATTGCTGAGATTGCGACAAAGAAATGTGTGTTTAGTCTCTGACAAATCTGGAACATG 975
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 300 TyrLeuLeuLysSerArgArgValValCysLeuValLeuAspLysSerGlySerMet 319
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||

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Qy 976 GCGACTGGTAACCGCCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGCTGCAGACA 1035
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 320 AspLysGluAspArgLeuIleArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIle 339
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1036 GTTGAGCTGGGGTCTCTGGGTGGATGGTGCATTTGACAGTGTGCTGCCATGTACAAGT 1095
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1096 GAATCTATACAGATAAAACAGTGGCAGTGACAGGAGACACATCGCCAAAAGATTACCTGCA 1155
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 360 TyrLeuIleLysIleThrSerSerAspTyrGlnLysIleThrAlaAsnLeuProGln 379
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1156 GCAGCTTCAGAGGAGCTCCATCTGCGAGCGGCTCGATCGCATTTACTGTGATAGG 1215
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 380 GlnAlaSerGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1216 AAGAAA---TATCAACTGTGATCTCTGAAATTTGTCTGTGTCAGGATGGGAGAGACAAC 1272
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 400 SerSerAspGlnSerThrSerGlySerGluIleValLeuLeuThrAspGlyGluAspAsn 419
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1273 ACTATAGTGGGTCTTTAACGAGTCAAAACAAAGTGTGTCATCATCCACACAGTCCGT 1332
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleIleHisThrIleAla 439
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
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Qy 440 LeuGlyProSerArgAlaArgGluLeuGluThrLeuSerAspMetThrGlyGlyLeuArg 459
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1393 ACATATGTTTCAGATCAAGTTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTCA 1452
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 460 PheTyrAlaAsnLysAspLeu-----AsnSerLeuIleAspAlaPheSerArgIleSer 477
Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 1453 TCAGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCCCTC 1512
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Qy 478 SerThrSerGlySerValSerGlnAlaLeuGlnLeuGluSerLysAlaPheAspVal 497
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Db      |||      |||      |||      |||      |||      |||      |||      |||      |||
Qy 498 ArgAlaGlyAlaTyrIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspThr 517
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Qy 1573 TTGTTTCTTATCACTCGAACACGCGCTCCCAAAATCCTTCTCTGGATCCCAAGTGA 1632
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Qy 518 PhePheValIleThrTyrMetValLysLysProGluIleIleLeuGlnAspProLysGly 537
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 714 AsnProProArgProAspValGlnGluGluAlaIleGluAlaThrValGluAspPheAsn 733  
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 734 ArgValThrSerGlyLysSerPheThrValSerGlyAlaPro-----ProAsp 749  
 QY 2272 -----CTCTCCACCTGCGCCAAATCACCAGCTGAAGCGGAAATTCAC 2316  
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 ; Sequence 34, Application US/10055412B  
 ; Patent No. 6692939  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0058  
 ; CURRENT APPLICATION NUMBER: US/10/055,412B  
 ; CURRENT FILING DATE: 2001-10-29  
 ; PRIOR APPLICATION NUMBER: US/09/193,562  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 34  
 ; LENGTH: 902  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-10-055-412B-34  
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 Score: 2324.50 Matches: 479

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Search completed: October 15, 2004, 16:19:02  
Job time : 160.308 secs

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: October 15, 2004, 16:09:40 ; Search time 288.484 Seconds  
(without alignments)  
6305.350 Million cell updates/sec

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Perfect score: 5080  
Sequence: 1 GAAATCACAGGAGATGTAC.....AAATAAATCATTCATCTTA 2813

Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 1360919 seqs, 323318874 residues

Total number of hits satisfying chosen parameters: 2721838

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -DOCLIGN=200 -THR SCORE=pct -THR MAX=100  
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- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
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Alignment Scores:

Pred. No.:	0	Length:	925
Score:	4802.00	Matches:	922
Percent Similarity:	100.00%	Conservative:	0

ALIGNMENTS

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; Sequence 635, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT232  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

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2	4802	94.5	925	14	US-10-106-698-6248	Sequence 6248, Ap
3	4759	93.7	914	9	US-09-823-356-8	Sequence 8, Appli
4	4759	93.7	914	9	US-09-981-353-192	Sequence 192, App
5	4759	93.7	914	11	US-09-833-245-2054	Sequence 2054, Ap
6	4759	93.7	914	14	US-10-235-994-26	Sequence 26, Appl
7	4759	93.7	914	14	US-10-060-255-42	Sequence 42, Appl
8	4756	93.6	914	9	US-09-922-217-1066	Sequence 1066, Ap
9	4756	93.6	914	9	US-09-833-263-1066	Sequence 1066, Ap
10	4756	93.6	914	13	US-10-025-380-1066	Sequence 1066, Ap
11	4754	93.6	914	14	US-10-270-595-5	Sequence 6, Appli
12	4753	93.6	914	14	US-10-055-412B-28	Sequence 28, Appl
13	4751	93.5	914	14	US-10-369-214-133	Sequence 133, App
14	4476	88.1	869	14	US-10-106-698-6388	Sequence 6388, Ap
15	3656.5	72.0	913	14	US-10-270-595-2	Sequence 2, Appli
16	3656.5	72.0	913	14	US-10-369-214-132	Sequence 132, App
17	2879.5	56.7	919	9	US-09-989-722-379	Sequence 379, App
18	2879.5	56.7	919	9	US-09-989-723-379	Sequence 379, App
19	2879.5	56.7	919	9	US-09-989-727-379	Sequence 379, App
20	2879.5	56.7	919	9	US-09-989-731-379	Sequence 379, App
21	2879.5	56.7	919	9	US-09-989-732-379	Sequence 379, App
22	2879.5	56.7	919	9	US-09-991-073-379	Sequence 379, App
23	2879.5	56.7	919	9	US-09-990-442-379	Sequence 379, App
24	2879.5	56.7	919	9	US-09-991-163-379	Sequence 379, App
25	2879.5	56.7	919	9	US-09-993-604-379	Sequence 379, App
26	2879.5	56.7	919	9	US-09-990-456-379	Sequence 379, App
27	2879.5	56.7	919	9	US-09-989-721-379	Sequence 379, App
28	2879.5	56.7	919	9	US-09-992-598-379	Sequence 379, App
29	2879.5	56.7	919	9	US-09-989-735-379	Sequence 379, App
30	2879.5	56.7	919	9	US-09-990-444-379	Sequence 379, App
31	2879.5	56.7	919	9	US-09-991-181-379	Sequence 379, App
32	2879.5	56.7	919	9	US-09-989-730-379	Sequence 379, App
33	2879.5	56.7	919	9	US-09-990-436-379	Sequence 379, App
34	2879.5	56.7	919	9	US-09-993-687-379	Sequence 379, App
35	2879.5	56.7	919	10	US-09-989-734-379	Sequence 379, App
36	2879.5	56.7	919	10	US-09-997-653-379	Sequence 379, App
37	2879.5	56.7	919	10	US-09-989-724-379	Sequence 379, App
38	2879.5	56.7	919	10	US-09-989-728-379	Sequence 379, App
39	2879.5	56.7	919	10	US-09-990-441-379	Sequence 379, App
40	2879.5	56.7	919	10	US-09-993-667-379	Sequence 379, App
41	2879.5	56.7	919	10	US-09-997-428-379	Sequence 379, App
42	2879.5	56.7	919	10	US-09-997-666-379	Sequence 379, App
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45	2879.5	56.7	919	10		

Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 94.53% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-18 (1-2813) x US-09-764-868-635 (1-925)

QY	1	GAATACAGAGGAGATGTACAGCAATGGGCCATTAAAGATTCTGTGTTTCATCTTGATT	60
Db	4	GlulIeThrGlyArgCysThrAlaMetGlyProPheLysSerSerValPheIleuLeuIle	23
QY	61	CTTCACCTTCAGAGGGCCCTGAGTAATTCACCTCAATTCAGCTGAAACAAATGGCTAT	120
Db	24	LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr	43
QY	121	GAAGGCATTGTCGTTGCAATGCCACCCCAATGTGCCAGAGATGAAACACTCATTCACAA	180
Db	44	GluGlyIleValValAlaIleAspProAsnValProGluAspGluThrLeuIleGlnGln	63
QY	181	ATAAGGACATGGTACCCAGGCATCTGTATCTGTTTGAAGCTACAGGAAGCGATT	240
Db	64	IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe	83
QY	241	TATTTCAAATGTGGCCATTGTTGATTCCTGAAACATGAAGACAAAGGCTGACTATGTG	300
Db	84	TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal	103
QY	301	AGACAAACCTTGAGACCTTACAAAATGCTGATGTTGTTGCTGAGTCTCTCTCCA	360
Db	104	ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro	123
QY	361	GCTAATGATGACCTTACACTGACAGATGGCACTGTGGAGAGAGGTCGAAAGGATC	420
Db	124	GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle	143
QY	421	CACCTCACCTGATTTCAATTCAGGAAAAAGTTAGCTGAAATATGGACCAAGGTAGG	480
Db	144	HisLeuThrProAspPheIleAlaGlyLysLysLeuAlaGluTyrGlyProGlnGlyArg	163
QY	481	GCATTTGTCATGAGTGGCTCATCTACGATGGGAGTATTTGACGAGTACATAATGAT	540
Db	164	AlaPheValHisGluTrpAlaHisLeuArgTrpGlyValPheAspGluTyrAsnAsnAsp	183
QY	541	GAGAAATCTCTATTCATCGAAGATACAGCAGTAGAATGTTGACGAGTATTACT	600
Db	184	GluLysPheTyrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr	203
QY	601	GGTACAAATGTAGTAAAGAGTGTACAGGAGGAGCTGTTTACACCAAAAGATGCACATTC	660
Db	204	GlyThrAsnValValLysLysCysGlnGlySerCysTyrThrLysArgCysThrPhe	223
QY	661	AATAAGTAAAGGACTATGAAAAGGATGTGATTGTTCTGATGTTCTCTACAGAA	720
Db	224	AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr	243
QY	721	GAGAGGCTCTATATGTTGTCACACATGTTGATTCTATAGTTCAATTTCTCTACAGAA	780
Db	244	GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu	263
QY	781	CAAAACCAACAAAGAGCTCCAAACAAAGCAAAATCAAAATCTCTCCGAAAGCACA	840
Db	264	GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	283
QY	841	TGGGAGTGTACGTTGATTCCTGAGGACTTTAAGAAACCACTCTCTATGACAAACAGCCA	900
Db	284	TrpGluValIleArgAspSerGluAspPheLysThrThrProMetThrThrGlnPro	303
QY	901	CCAAATCCCACTTCTCATTCGTCAGATTGGCAAAAGATTGTTGTTTGTAGTCCCTTGAC	960
Db	304	ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	323
QY	961	AAATCTGGAAGCATGGCATGTGTAAACCGCTCAATCGATCAATCAAGCAGCCAGCTT	1020
Db	324	LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu	343

QY	1021	TTCCTGCTGCAGACAGATTGAGCTGGGTCTGGGTGGATGGTGACATTTGACAGTGCT	1080
Db	344	PheLeuLeuGlnThrValGluLeuGlySerTrpValGlyMetValThrPheAspSerAla	363
QY	1081	GCCCATGTACAAAGTGAACCTCATACAGATAAACAGTGGCAGTGACAGGACACACTCGCC	1140
Db	364	AlaHisValGlnSerGluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAla	383
QY	1141	AAAAGATTACCTGCAGCAGCTTCAGAGGAGCGTCCATCTGCAGCGGCTTCGATCGCA	1200
Db	384	LysArgLeuProAlaAlaAspSerGlyGlyThrSerIleCysSerGlyLeuArgSerAla	403
QY	1201	TTTACTGTGATTAGGAAGAAATATCCAATCATGATCTGAAATGTGCTGTCGCGGAT	1260
Db	404	PheThrValIleArgLysTyrProThrAspGlySerGluIleValLeuLeuThrAsp	423
QY	1261	GGGGAAGACAAACACTATAAGTGGTGTAAACGAGGTCAACAAAGTGGTCCCATCATC	1320
Db	424	GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle	443
QY	1321	CACAGCTCGCTTGGGCCCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAATGACA	1380
Db	444	HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluGluLeuSerLysMetThr	463
QY	1381	GGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAATGGCTCATTTGATGCTTT	1440
Db	464	GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPhe	483
QY	1441	GGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
Db	484	GlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLys	503
QY	1501	GGATTAAACCTCCAGAACAGCCAGCTGGATGATGTCACAGTATGCTGCACAGCACCGTG	1560
Db	504	GlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrVal	523
QY	1561	GGAAAGGACACTTTGTTCTTATCACCTGGACAAACGACGCTCCCAATCTCTCTCTGG	1620
Db	524	GlyLysAspThrLeuPheLeuIleThrTrpThrGlnProProGlnIleLeuLeuTrp	543
QY	1621	GATCCAGTGGACAGAACAGGTGGCTTTGTAGTGGACAAACACCAAAATGGCCTAC	1680
Db	544	AspProSerGlyGlnLysGlnGlyGlyPheValValAspLysAsnThrLysMetAlaTyr	563
QY	1681	CTCCAAATCCAGGCACTTCTTAAGTTGACATCTCGAATACAGTCTGCAAGCAAGCTCA	1740
Db	564	LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyrSerLeuGlnAlaSerSer	583
QY	1741	CAAACTTCACCTGACTGCTACGTCCTGCTGCTCAATGCTACCTGCTCCCAATTACA	1800
Db	584	GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr	603
QY	1801	GTGACTTCCAAACGACAGACACACCAATTCGCCAGCCCTCGGTAGTTTATGCA	1860
Db	604	ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTyrAla	623
QY	1861	AATATTCGCAAGGACCTCCCAATTTCTCAGGCCAGTGTACACGCCCTGATTGAATCA	1920
Db	624	AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer	643
QY	1921	GTCAATGGAAAAACAGTTACCTTGGAACTACTGGATAATGGAGCAGGTGCTGATCTACT	1980
Db	644	ValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	663
QY	1981	AAGGATGAGGTGCTTACTCAAGTATTTTCACAACTTATGACACGATGGTACATACAGT	2040
Db	664	LysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSer	683
QY	2041	GTAAAAAGTGGGCTCTGGGAGGAGTTAACGACGACGACGAGAGTGTATACCCACGAG	2100
Db	684	ValLysValArgAlaLeuGlyValValAsnAlaAlaArgArgValIleProGlnGln	703

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QY 2101 AGTGAGCACTGTATACCTGGCTGGTATGAGAAATGATGAATAATCAATGAATCCACCA 2160
Db |||||||
QY 704 SerGlyAlaLeuTyrIleProGlyTyrIleGluAsnAspGluIleGlnTrpAsnProPro 723
Db |||||||
QY 2161 AGACCTGAATTAATAGGATGATGTTCAACACAGCAAGTGTGTTTCACGAGAACATCC 2220
Db |||||||
QY 724 ArgProGluIleAsnLysAspValGlnHisGlyGlnValCysPheSerArgThrSer 743
Db |||||||
QY 2221 TCGGGAGGCTCATTTGTGGCTCTCTGATGTCCTCCAAATGCTCCCATACCTGATCTCTCCCA 2280
Db |||||||
QY 744 SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro 763
Db |||||||
QY 2281 CTGGGCCAATACCGACCTGAAGGGGAAATTCACGGGGCAGTCTCTCAATATCTGACT 2340
Db |||||||
QY 764 ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThr 783
Db |||||||
QY 2341 TGCACAGCTCTCGGGATGATTATGACCATGGACAGCTCACAGTATATCATCGAATA 2400
Db |||||||
QY 784 TrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleA-gile 803
Db |||||||
QY 2401 AGTACAAGTATTTCTGATCTCAGACACAGTTCATGAATCTCTTCAAGTGAATCTACT 2460
Db |||||||
QY 804 SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr 823
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Db |||||||
QY 824 AlaLeuIleProLysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIle 843
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QY 2521 ACTTTTGAAATGGCACACATCTTTTCATGCTATTCAGCTGTTGATAGGTGATCTG 2580
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QY 924 IleAla 925
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RESULT 2
US-10-106-698-6248
; Sequence 6248, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6248
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-6248
Alignment Scores:

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Pred. No.: 0 Length: 925
Score: 4802.00 Matches: 922
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 94.53% Indels: 0
DB: 14 Caps: 0

US-09-049-696-18 (1-2813) x US-10-106-698-6248 (1-925)

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QY 61 CTTCACTCTCTAGAAGGGGCCCTGAGTAATCACTCACTCAGCTGAGCAACAACTGGCTAT 120
Db 24 LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr 43
QY 121 GAAGGCATGTCTGTCGAATCGACCCCAATGCGCAGAGATGCCAGAGATGAAACACTCATCAACAA 180
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QY 181 ATAAGGACATGCTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGCAAGCGCATTT 240
Db 64 IleLysAspMetValThrGlnAlaSerLeuTyrLeuPheGluAlaThrGlyLysArgPhe 83
QY 241 TATTTCAAAATGTTGCCATTTTGATTCCTGAAACATGGAAGCAAGCTGACTATGTG 300
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QY 301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTCTGGTGTGAGTCTACTCTCCA 360
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Db 124 GlyAsnAspGluProTyrThrGluGlnMetGlyLysCysGlyGluLysGlyGluArgIle 143
QY 421 CACTCACTCTCTGATTTCAATGACAGAAAGTGTAGCTGAATATGGACCAAGTAGG 480
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QY 481 GCATTTGTCATGATGGCTCATCTACGATGGGAGTATTTGACGAGTACAAATATGAT 540
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QY 541 GAGAAATCTACTTATCCAATGGAAGATACAAGCAGTAAAGATGTTACAGAGTATTACT 600
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QY 661 AATAAGTAACAGACACTTATGAAAAGGATGAGTTGTTCTCCATCCCGCCAGACG 720
Db 224 AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr 243
QY 721 GAGAAGGCTTCTATAATGTTTGCAACATGTTGATCTATAGTTGATTTCTGTACAGAA 780
Db 244 GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu 263
QY 781 CAAACCAACAAAGAGTCCAAACAAAGCAAAATCAAAATCAAAATCCCAAGCACA 840
Db 264 GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr 283
QY 841 TGGGAGTGTGATCGTGTATTTGAGGACTTTAAGAAACCACTCTCTATGCAACACAGCCA 900
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QY 901 CCAATCCCACTTCTCATTTGCTGCAGATGGCAAGAAATTTGCTGTTTAGTCTTGCAC 960
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; SOFTWARE: PERL Program  
 ; SEQ ID NO 8  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
 US-09-823-356-8

## Alignment Scores:

Pred. No.: 0 Length: 914  
 Score: 4759.00 Matches: 914  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 93.68% Indels: 0  
 DB: 9 Gaps: 0

US-09-049-696-18 (1-2813) x US-09-823-356-8 (1-914)

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 QY 85 AGTAATTCTACTNATCAGCTGAACAACAATGGCTATCAAGGCATTGCGTTGCAATCGAC 144  
 DB 21 SerAsnSerLeuLeuGlnLeuAsnAsnGlyTyrGluGlyLeuValValAlaLeuAsp 40  
 QY 145 CCCAATGTCCGAGAGATGAACACATTCATTCAACAATAAAGACATGGTACCCAGGCA 204  
 DB 41 ProAsnValProGluAspGluThrLeuLeuGlnGlnLeuLysAspMetValThrGlnAla 60  
 QY 205 TCTCTGTATCTGTTGAAGCTACAGAAAGCCGATTTATTTCAAAATGTTGCCATTTTG 264  
 DB 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaLeu 80  
 QY 265 ATTCTGTAACATGGAACAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324  
 DB 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100  
 QY 325 AATGCTGATGTTCTGTGCTCAGTCTACTCTCTCCAGGTAAATGATGAACCCCTACACTGAG 384  
 DB 101 AsnAlaAspValLeuValAlaGluSerThrProGlyAsnAspGluProTyrThrGlu 120  
 QY 385 CAGATGGCAACTGTGGAGAGAGGCTGAAAGGATCCACCTCACCTCCCTGATTCTATGCA 444  
 DB 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
 QY 445 GGAAAAAGTTAGCTGAATATGGACCAACAAGTAGGGCATTGTCCATGAGTGGGCTCAT 504  
 DB 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
 QY 505 CTACCATGGGAGTATTGACGAGTACAAATATGATGAGAAATCTTACTATPCCAAATGGA 564  
 DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180  
 QY 565 AGAATACAGCAGTAAGATTGTCAGCAGGTATTACTGCTACAAATGTAGTAAGAAGTGT 624  
 DB 181 ArgIleGlnAlaValArgCysSerAlaGlyLeuThrGlyThrAsnValValLysLysCys 200  
 QY 625 CAGGAGGCGACTGTTACACCAAAAGATGCAATTCATAAAGTAACAGGACTCTATGAA 684  
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 DB 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
 QY 745 CAACATGTGTGATTCTATAGTTGAATTTCTGTACAGAACAAACCAACCAAGAGCTCCA 804  
 DB 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
 QY 805 AACAAAGCAAAATCAAAATGCAATCTCCGAGACATGGGAGGTGATCCGTGATTCTGAG 864

DB 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
 QY 865 GACTTTAAGAAAACCACTCTATGACAAACAGCCACCAAAATCCACCTTCTATTGCTG 924  
 DB 281 AspPheLysLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu 300  
 QY 925 CAGATTGGACAAAGAATTGTGTGTAGTCTCTGACAAATCTGGAAGCATGGGACTGGT 984  
 DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
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 DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
 QY 1045 GGCTCTCTGGGTTGGGATGGTGACATTTGACAGTCTGCCCATGTACAAAGTGAACCTCAT 1104  
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 DB 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
 QY 1285 TGGTTTAACGAGGTCAAAAGTGGTCCATCTCCACACAGTCGCTTTGGGCGCTCT 1344  
 DB 421 CysPheAsnGlnValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
 QY 1345 GCAGCTCAAGACTAGAGGAGCTGCCAAATAGCAGAGGTTTACAGACATATGCTTCA 1404  
 DB 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
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 QY 1645 GGCTTTGTAGTGGACAAAACACCAAAATGGCCCTACTCCAAATCCCAAGCATTTGCTAAG 1704  
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 QY 1765 TCCGTCGCTCCCAATGTACCTCCCTCCCAATTACAGTACTTCCAAAACGACAAAGGAC 1824  
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 QY 1825 ACCGACAAATTCGCCAGCCCTCTGTGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCA 1884  
 DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
 QY 1885 ATTCTCAGGCCAGTGTACAGCCCTGATTGAATTCAGTGAATGGAATAACAGTTACCTTG 1944

Db	621	IleLeuArgAlaSerValThrAlaLeuLeuGluSerValAsnGlyLysThrValThrLeu	640
QY	1945	GAACCTACTGGATAATGGACAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG	2004
Db	641	GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValSerArg	660
QY	2005	TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTCGGGCTCTGGAGGA	2064
Db	661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
QY	2065	GTTAAGCAGCAGCAGGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATCTCGC	2124
Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
QY	2125	TGGATTGAGATGATGAATAACAATGCAATCCACCAAGACCTGGAATTAATGAAGATGAT	2184
Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	2185	GTTCAACACAAAGTGTGTTTCAGCAGAACATCTCGGAGGCTCATTTGCGCTCT	2244
Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyLysPheValAlaSer	740
QY	2245	GATGTCCCAAACTGCTCCCATCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG	2304
Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
QY	2305	CGGGAAATTCACGGGGCAGTCTCATTAATCTGACCTTGACACAGCTCTCGGGATGATTAT	2364
Db	761	AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
QY	2365	GACATGGAACAGCTCACAAATATATCATTCGATTAAGTACAGTATTTCTGATCTCAGA	2424
Db	781	AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg	800
QY	2425	GACAACTCAATGAATCTCTCAAGTGAATACACTGCTCTCATCCCAAGGAGCAAC	2484
Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrAlaLeuIleProLysGluAlaAsn	820
QY	2485	TCTGAGGAAGTCTTTTGTAAACAGAAACATTACTTTTCAAAATGGCAAGATCTT	2544
Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
QY	2545	TTCAATGCTATTAGGCTGTGTAGTATAGTTCATCGAATCAGAAATATCCACATGCA	2604
Db	841	PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
QY	2605	CGAGTATCTTTGTTTATCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACG	2664
Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
QY	2665	TCTGCTCTTGTCTCTAATATTCATATCAACAGACACCATTCCTGATCAATTTAAA	2724
Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	2725	ATTATGTGGAAGTGGATAGAGAACTGCACTGTCAATAGCC	2766
Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914
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; Sequence 192, Application US/09981353			
; Patent No. US20020160382A1			
; GENERAL INFORMATION:			
; APPLICANT: Lasek, Amy W.			
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER			
; FILE REFERENCE: PA-0038 US			
; CURRENT APPLICATION NUMBER: US/09/981,353			
; CURRENT FILING DATE: 2001-10-11			
; NUMBER OF SEQ ID NOS: 194			
; SOFTWARE: PERL Program			
; SEQ ID NO 192			
; LENGTH: 914			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
; NAME/KEY: misc.feature			
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1			
US-09-981-353-192			
Alignment Scores:			
Pred. No.: 0 Length: 914			
Score: 4759.00 Matches: 914			
Percent Similarity: 100.00% Conservative: 0			
Best Local Similarity: 100.00% Mismatches: 0			
Query Match: 93.68% Indels: 0			
DB: 9 Gaps: 0			
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QY	85	AGTAATTCATCTCATTACGCTGAACAACATGCTATGAAGCATTTGTCTGCAATCGAC	144
Db	21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp	40
QY	145	CCCAATGTGCCAGAAGATGAAACACTCATTCAACAAATAAAGACATGTTGACCCAGGA	204
Db	41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
QY	205	TCTCTGTATCTGTTGAAGTACAGAAAGCCGATTTTATTTCAAAAATGTTGCCATTG	264
Db	61	SerLeuTyrLeuPheGluAlaThrGlyLysA-gPheTyrPheLysAsnValAlaIleLeu	80
QY	265	ATTCCTCAACACTGGAGACAAAGCTGACTATGTGAGACCAAACTGAGACCTACAAA	324
Db	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGTTGCTGCTGCTCTCTCTCCAGGTAAATGATGAACCTACATGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATCGGCAACTGTGGAGAGAGGGTGAAGATCCACTCACTCTCTGATTTTCATTGCA	444
Db	121	GlnMetGlyAsnGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly	140
QY	445	GGAAAAAGCTAGCTCAATATGACCAAGGTAGGGCATTTGTCATGAGTGGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTyrPalaHis	160
QY	505	CTACGATGGGGAGTATTTCACGAGTACAATAATGATGAGAAATCTTACTTATCCAATGGA	564
Db	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGAATCAACAGCAGTATGTTTCTGAGGATTTACTGTTTACTGTTTACTGTTTACTGTTT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGCGACGCTTTACACCAAGATGCACATTCAATAAAGTAAACAGACCTCATSA	684
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QY	685	AAAGGATGTGAGTTTGTCTTCTCAATCCCGCCAGACGAGAGAGGCTTCTATATGTTTGA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTTCTATAGTTGATTTCTGTACAGAACAAACCAACAAAGAGCTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAGCAAAATCAAAATGCAATCTCCGAGACATCGGAGGTGATCCGTTGATTTCTGAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280

QY 865 GACITTAAGAAAACCACTCTATGACACACAGCCACCAAAATCCACCTCTCTATTGCTG 924  
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## RESULT 5

US-09-833-245-2054  
 ; Sequence 2054, Application US/09833245  
 ; Publication No. US20040010134A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Human Genome Sciences, Inc.  
 ; TITLE OF INVENTION: Albumin Fusion Proteins  
 ; FILE REFERENCE: PF546PCT  
 ; CURRENT APPLICATION NUMBER: US/09/833,245  
 ; CURRENT FILING DATE: 2001-04-12  
 ; PRIOR APPLICATION NUMBER: 60/229, 358  
 ; PRIOR FILING DATE: 2000-04-12  
 ; PRIOR APPLICATION NUMBER: 60/256, 931  
 ; PRIOR FILING DATE: 2000-12-21  
 ; PRIOR APPLICATION NUMBER: 60/199, 384  
 ; PRIOR FILING DATE: 2000-04-25  
 ; NUMBER OF SEQ ID NOS: 2267  
 ; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 2054
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-2054

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  Score:         4759.00  Matches:      914
  Percent Similarity: 100.00%  Conservatives: 0
  Best Local Similarity: 100.00%  Mismatches: 0
  Query Match:      93.68%  Indels: 0
  DB:                11      Gaps: 0

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601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlnLysAlaSerPro 620
1885 ATTCCTCAGGCGCAGTGTCTACAGCCCTGATTTGAATCAGTGAATGGAATAACAGTTACCTTG 1944
621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640
1945 GAATCTATGGAATAATGGAGGAGGCTGTGATGCTACTAAGGATGACGGTGTCTACTCAAGG 2004
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Db      641  GluLeuLeuAspAsnGlyAlaGlyAlaThrLysAspGlyValTyrSerArg 660
QY      2005  TATTTCAACACTTATGACACGATGGTAGATACAGTGTAAAGTGGGCTCTGGAGGA 2064
Db      661  TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY      2065  GTTAACGCGACGACGAGAGTGTATACCCACGACAGATGGAGCACTGTACATACCTGGC 2124
Db      681  ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
QY      2125  TGGATTGAGATGATGAATAACAATCAATCGAATCCACCAAGACCTGAAATTAATAAGGATGAT 2184
Db      701  TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720
QY      2185  GTTCAACACAGCAAGTGTGTTCAGACAGACATCTCGGAGGCTCATTTGTGCTTCT 2244
Db      721  ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY      2245  GATGTCCCAAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAATCACGACCTGAAG 2304
Db      741  AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760
QY      2305  CGGMAATTCACGGGGGAGTCTCTAATATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364
Db      761  AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY      2365  GACCATGGAACAGCTCAACAGTATATCATTCGAATAAGTACAAGTATTTCTGATCTCAGA 2424
Db      781  AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800
QY      2425  GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCCCAAC 2484
Db      801  AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820
QY      2485  TCTGAGGAAGTCTTTTGTGTTAAACCAAGAAACATTAATTTTGAAATGGCACAGATCTT 2544
Db      821  SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
QY      2545  TTCATTGCTATTACGGCTGTGTGATAAGTCTCATCTGAAATCAGAAATATCCAACTTCCA 2604
Db      841  PheIleAlaIleGlnAlaValAspLysValAspLysSerGluIleSerAsnIleAla 860
QY      2605  CGAGTATCTTTGTTTATTCTCCACAGACTCCGCGACAGACACTAGTCTCTGATGAAACG 2664
Db      861  ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880
QY      2665  TCTGCTCTCTGCTCTATATTCATATCAACAGCACCATCTCTGGCATTCACATTTTAAAA 2724
Db      881  SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900
QY      2725  ATTATGTGGAGTGGATAGGAGAACTGCAGCTGTCAATAGCC 2766
Db      901  IleMetThrLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 6
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICVTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914

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; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26
Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best local Similarity: 100.00% Mismatches: 0
Query Match: 93.68% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-18 (1-2813) x US-10-235-994-26 (1-914)
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QY      85  AGTAAATTCACCTCATTTCAGCTGAAACAACATGGCTATGAGGCAATGTCGTTGCAATCGAC 144
Db      21  SerAsnSerLeuIleGlnLeuAsnAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY      145  CCCAATGTGCCAGAAAGATGAAACACTCATCTCAACAAATAAAGGACATGTCGCCAGCA 204
Db      41  ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY      205  TCTCTGTATCTGTTTGAAGCTTACAGGAAGCGATTATTTCAAAAATGTTGCCATTTTG 264
Db      61  SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY      265  ATTCTCTGAACATCGAAGACAAAAGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
Db      81  IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY      325  AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGTAAATGATGACCCCTACACTGAG 384
Db      101  AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY      385  CAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCACTCTCTGATTTCATTGCA 444
Db      121  GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY      445  GGAAGAAGTTAGCTGATATGACACCAAGGTAGGCAATTTGTCATGAGTGGCTCAT 504
Db      141  GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY      505  CTACGATGGGGAGTATTGTGACAGTACAATAATCATGAGAAATCTACTTATCCAAATGGA 564
Db      161  LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY      565  AGAATACAAGCAGTAAGATGTTACAGAGGTATTACTGTGTAATAAGTAGTAAGAAGTGT 624
Db      181  ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY      625  CAGGAGGCGAGCTTTACACAAAAGATGCACATTCATTAAGTAACAGAGCTCTATGAA 684
Db      201  GlnGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220
QY      685  AAAGATGTGAGTTTGTCTCCAAATCCCGACAGAGGAGGCTTCTATAATGTTTGGCA 744
Db      221  LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240
QY      745  CAACATGTTGATTCTATAGTTGAATTTCTGTACAGAAACAAAACCAACCAAGAAGCTCCA 804
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QY      805  AACAGCAAAATCAAAAATCCAATCTCCGAGCAGCATGGGAAGTGTATCCGTGATCTGAG 864
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QY      865  GACTTTAAGAAAACCACTCTCTATGACACACGCCCAATCCCACTTCTCATTTGCTG 924
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QY 1045 GGGTCTCGGTTGGGATGGTGAATTCACAGTGTGCTGCCATGTACAAAGTGAATCATTA 1104  
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QY 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
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QY 601 ThrSerLysPheProSerProIleuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
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QY 701 TrpIleGluAsnAspGluIleGlnTrpAsnProArgProGluIleAsnLysAspAsp 720  
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RESULT 7  
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; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: PZ042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT

; ORGANISM: Homo sapiens  
US-10-060-255-42

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21	SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValAlaIleAsp	40
145	CCCAATGTCAGAGATCAACACTCATTTCAACAAATAAAGACATGGTGACCCAGGCA	204
41	ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla	60
205	TCTCTGATCTGTTTGAAGCTACAGAAAGCATTTTATTTCAAAATGTTGCCATTTG	264
61	SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
265	ATTCCTGAAACATGGAAGACAAAGCGTGACTATGTAGACCAAACTTGAGACCTCAA	324
81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
325	AATGCTGATGTTCTGGTTGCTGACTCTACTCTCCAGTAAATGATGAACCTCACTGAG	384
101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
385	CAGATGGCCAACTGTGGAGAGAGGGTGAAGATCCACCTCACTCCTGATTTCAATGCA	444
121	GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
445	GGAAAAAGTTAGCTGAATATGGACCAACAGGTAGGCAATTTGTCCATGAGTGGGCTCAT	504
141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis	160
505	CTACGATGGGAGATTGTCAGCGATACAATAATGATGAGAAATTCATTTATCCCAATGA	564
161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
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625	CAGGGAGCGCTCTACACCAAGATGCACATTCATTAAGTAAACAGCACTCTATGAA	684
201	GlnGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220
685	AAAGGATGTGAGTTGTTCTCCAATCCCGCAGACGAGAAGCTTCTATATGTTGCA	744
221	LysGlyCysGluPheValLeuGlnSerArgGluThrGluLysAlaSerIleMetPheAla	240
745	CAACATGTTGATCTTAGTTGAATCTGTACAGAAACAAACCAACAAAGAGCTCCA	804
241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
805	AACAGCAAAATCAAAATGCATCTCCGAAGCACATGGGAAGTGATCGGTGATCTCGAG	864
261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
865	GACTTTAAGAAAAACCTCTATGACACACACAGCCACCAATCCCACTTCTCATTTGCTG	924
281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300

QY	925	CAGATTGGACAAAGAATTTGTGTTTGTCTTGTAGCTCTTGACAAATCTGGAAGCATGCGCACTGGT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCGCCTCAATCGACTGAATCAAGCAGGCCAGCTTTTCTGCTGCGAGACAGATTGAGCTG	1044
Db	321	AsnArgLeuAenArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTCTGGGTGGGATGGTCACATTTGACAGTCTGCTCCCATGTACAAAGTGAACACTCATA	1104
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QY	1105	CAGATAAACAGTGGCAGTGCACAGGCACACACTCGCCAAAAGATTACCTGCAGCAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAser	380
QY	1165	GGAGGACGTCATCTGCAGCGGGCCTTCGATTCGGCATTTTACTGTGANTAGAGAANAAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAACTGATGTGATCTGAAATTTGCTGCTGACGGATGGGAAGACACACTATAAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluaspasnThrIleSerGly	420
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## RESULT 9

US-09-833-263-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066

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; LENGTH: 914
; TYPE: ERT
; ORGANISM: Homo sapiens
US-09-833-263-1066

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4756.00 Matches: 913
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.89% Mismatches: 0
Query Match: 93.62% Indels: 0
DB: 9 Gaps: 0

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RESULT 11  
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; Sequence 6, Application US/10270595  
; Publication NO. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595

; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4754.00 Matches: 913
Percent Similarity: 99.89% Conservative: 0
Best Local Similarity: 99.89% Mismatches: 1
Query Match: 93.58% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-18 (1-2813) x US-10-270-595-6 (1-914)
QY 25 ATGGGGCCATTAGAGTTCTGTGTTTCATCTGTGTTTCACCTTCTAGAGGGGCCCTG 84
DB 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATTCACTCATTACAGTCAAGCAACATGCTATGAGGAGGATGCTGTTGCAATGCA 144
DB 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTGCCAGAGATGAACACTCATTCAACAAATAAAGGACATGGTGACCCAGGCA 204
DB 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTGAGCTACAGGAAGCGATTATTTCAAAAATGTTGCCATTTTG 264
DB 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCCTCAAAACATGGAAGCAAGAGCTGACTATGTGAGACCAAACTTGACACCTACAAA 324
DB 81 IleProGluThrTrpLysThrLysAlaAspPyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCCTCCAGGTAATGATGAACCTACACTGAG 384
DB 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCACTGTGAGAGAGGGTGAAGGATCCACCTCACTCTGATTCAATTGCA 444
DB 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAAGTTAGCTGAATATGACCAACAGGATAGGCGATTGTCATGATGGGCTCAT 504
DB 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
QY 505 CTACGATGGGGAGTATTGTGACGAGTACAATAATGATGAGAAATTTCTACTTATCCAAATGGA 564

DB 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAGCAGTAAAGATGTTTACAGAGTATTACTGGTACAAATCTAGTAAGAGTGT 624
DB 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
QY 625 CAGGAGGCGAGCTGTTTACACCAAAAGATGCACATTCAATAAAGTACACGAGCTCTATGAA 684
DB 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLys\*\*ThrGlyLeuTyrGlu 220
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QY 925 CAGATTGGACAAAGAAATTTGTTTACTCTTACAAATCTGGAAGATGCGGAGTCCGCTG 984
DB 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCCAGCTTTTCTCTGTCGACAGACTTCTGAG 1044
DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuGlnThrValGluLeu 340
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DB 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAAACAGTGGCAGTGACAGGACACACTCCGCCAAAGATTTACCTGACAGAGCTTCA 1164
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QY 1165 GGAGGACGTCCATCTCAGCGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224
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QY 1285 TGCTTTAACGAGGTCAAAACAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCT 1344
DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440
QY 1345 GCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACAGACATATGCTTCA 1404
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DB 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520
QY 1585 ACCTGGACACAGCAGCTCCCAAAATCTCTCTGGATCCCAAGTCCCAAGACAGCAAGGT 1644

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Qy 1645 GGCTTTGTAGTGACAAAAACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
Qy 1705 GTTGGCACTTGAATACAGTCTGCAAGCAGCTCACAACCTTGACCTGACTGTCAG 1764  
Db 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrValThr 580  
Qy 1765 TCCGCTGGCTCCAAATGCTACCTGCTCCAAATACAGTACTCCAAACCAAGCAAGAC 1824  
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Qy 1825 ACCAGCAAAATCCCGAGCCCTCTGTGTATGTATGCAATATTCGCCAAGGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
Qy 1885 ATTCTCAGCGCAGTGTACAGCCCTGATTCGAATCAGTGAATGGAAAAACAGTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
Qy 1945 GAATCTACTGGGTAATGGAGCAGCTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaaspAlaThrLysAspAspGlyValTyrSerArg 660  
Qy 2005 TATTTCACAACTTATGACACGAATGGTAGATACAGTGAATGAAGTCCGGGCTCTGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
Qy 2065 GTTACGAGCAGCAGGAGTGTATACCCAGCAGTGGAGCAGTGTACACTCTGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
Qy 2125 TGGATTGAGATGATGAAATACAAATGGAATCCACCAAGACCTGAAATTAATGAAGTAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
Qy 2185 GTTCAACACACAAAGTGTGTTTACGACAGAAATCTCCGAGGCTCATTTGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
Qy 2245 GATGTCCCAAAATGCTCCCATACCTGATCTCCACCTGGCCAAATACCCAGCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
Qy 2305 GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAT 2364  
Db 761 AlaGluIleHisGlySerLeuIleAsnLeuThrThrAlaProGlyAspAspTyr 780  
Qy 2365 GACCATGGAACTGCTCACAGTATATCATTCGATTAAGTACAGTATCTTGTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
Qy 2425 GACAGTTCAATGAATCTCTCAAGGAAATACTACTGCTCTCATCCCAAGGAGCAAC 2484  
Db 801 AspLysPheAsnGlnSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
Qy 2485 TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTTACTTTGAAATGCGACAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
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Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluLysSerAsnIleAla 860  
Qy 2605 CGAGTATCTTTGTTTATTCTCCACAGACTCCCGCAGACACCTAGTCTGATGAACG 2664  
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Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900

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## RESULT 12

US-10-055-412B-28  
; Sequence 28, Application US/10055412B  
; Publication No.: US20030059861A1  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0058  
; CURRENT APPLICATION NUMBER: US/10/055.412B  
; CURRENT FILING DATE: 2001-10-29  
; PRIOR APPLICATION NUMBER: US/09/193.562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065.922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 28  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-055-412B-28

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4753.00 Matches: 912  
Percent Similarity: 100.00% Conservative: 2  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 93.56% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-18 (1-2813) x US-10-055-412B-28 (1-914)

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Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40  
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Qy 205 TCTCTGTATCTCTTTGAAGCTACAGGAAGCGATTTTATTTCAAAATGTTGCCATTTG 264  
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Qy 265 ATTCCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100  
Qy 325 AATGCTGATGTTCTGTTCTGCTGCTGCTCTCTCCAGGTAATGATGAACCTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120  
Qy 385 CAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACTCACTCTGATTTTCAATGCA 444  
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgGlnHisLeuThrProAspPheIleAla 140  
Qy 445 GGAAGAAAGTTAGCTGAATATGACCAAGCTAGGCAATTTGCTCCATGAGTGGGCTCAT 504  
Db 141 GlyLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160  
Qy 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAAATTTCTACTTATCCAATGGA 564  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180



QY	565	AGATAACAAGCAGTAAGATGTTTCAGCAGGTATTTACTGGTACAAATGCTAGTAAAGAGTGT	624		541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200		1705	GTTGGCAGCTTGGAAATACAGTCTGCAAGCAAGCTCACAACACCTTGACCTGCTGTCACG	1764
QY	625	CAGGAGGAGCTGTTTACACCAAAAGATGACACATTCATTAAGATACAGGACTCTATGAA	684		561	ValGlyThrTriPlysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220		1765	TCCGTGCGCTCAATGCTTACCCCTGCTCCAAATTACAGTCACTTCCAAAACGACAAAGGAC	1824
QY	685	AAAGGATGTGAGTTCTTCTCCAAATCCCGCAGCGAGAGAGCTTCTATATGTTTGA	744		581	SerArgAlaSerAsnAlaThrLeuProProlleThrValThrSerLysThrAsnLysAsp	600
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240		1825	ACCAGCAATTCGCCAGCCCTCTGCTAGCTTTATGCAATATTTCGCAAGAGGCTCCCA	1884
QY	745	CAACATGTTGATTCTATAGTTGAATCTCTACAGAACAAAACCAACAAAGAGCTCCA	804		601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260		1885	ATTCTCAGCGCCAGTGTTCACAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTACTCTG	1944
QY	805	AACAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGATCCGTGATCTGAG	864		621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280		1945	GMACTACTGATTAATGGAGCAGGTGCTGATCTACTAAGGATGACGGTGTCTTACTCAAG	2004
QY	865	GACTTTAAGAAAAACCACTCTATGACACACAGCCACCAAAATCCACCTTCTCATTTGCTG	924		641	GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300		2005	TATTTTCACAACTTATGACACGAATGATACAGTGTAAAGAGTGGGCTCTGGAGGA	2064
QY	925	CAGATTGGACAAGAATGTTGTGTTTAGTCTCTTGACAAATCTGGAAGCATGGCGACTGCT	984		661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320		2065	GTTAACGAGCCAGACGAGAGTGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCG	2124
QY	985	RACCGCCTCAATCGACTGATCAAGAGCCAGCTTTTCTCTGCTGCGACAGCTTGAGTG	1044		681	ValAsnAlaAlaArgArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340		2125	TGGATTGAATGATGAAATCAATGGAATCCACAGACCTGAAATTAATAAGGATGAT	2184
QY	1045	GGGTCTCTGGTGGGATGGTGCATTTGACAGCTGCTGCCAGTGTACAAAGTCAACTCAT	1104		701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
Db	341	GlySerTrpValGlyMetValThrPheSerAlaAlaHisValGlnSerGluLeuIle	360		2185	GTTCAACAACAGCAGTGTGTTTCCAGCAGACATCTCGGAGAGCTCATTTGTGCTTCT	2244
QY	1105	CAGATAAACAAGTGGCAGTACAGGACACACTCGCCAAAAGATTACCTGCGACAGCTTCA	1164		721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAlaSer	380		2245	GATGTCCCAATGTCTCCATACCTGATCTCTTCCACCTGCGCAATCACCAGCTGAAG	2304
QY	1165	GGAGGAGCTCCATCTGACGGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT	1224		741	AspValProAsnAlaProlleProAspLeuPheProGlyGlnIleThrAspLeuLys	760
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400		2305	CGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT	2364
QY	1225	CAAATGATGATCTGAAATTTGCTGCTGCGGATGGGAGACAACTATAAGTGGG	1284		761	AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr	780
Db	401	ProThrAspGlySerGluIleValLeuLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420		2365	GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAGTATTTCTTGATCTCAGA	2424
QY	1285	TGCTTTAACAGGTCMAAACAAAGTGGTCCCATCATCCACAGTCTGCTTGGGGCCCTCT	1344		781	AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg	800
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440		2425	GACAAGTTCAATGAATCTTCAAGTGAATACTACTGCTCTCATCCCAAGAGCAAC	2484
QY	1345	GCAGTCAAGACTAGAGGAGCTGTCCAATATGACAGAGGTTTACAGACATATGCTTCA	1404		801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
Db	441	AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460		2485	TCTCAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTAATTTTGAATAATGGCACAGATCT	2544
QY	1405	GATCAAGTTTCAACAATAGGCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGGA	1464		821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480		2545	TTCATTGCTATTACAGCTGTGTGATAGGTGATCTGAAATCAGAAATATCCAACTTGCA	2604
QY	1465	GCTGTCTCTACGCGCTCCATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAG	1524		841	PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500		2605	CGAGTATCTTTGTTTATTCTCCACAGACTCCCGCCAGAGACACCTAGTCTCTGATGAAACG	2664
QY	1525	TGGATGATGACAGTATGCTGGAACGACCGGTGGGAAGGACACTTGTCTTTCTTATC	1584		861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520		2665	TCTGCTCTTGTCTTAATATTCATATCAACAGCACCATTCCTGCAATTCATTTTAAAA	2724
QY	1585	ACCTGGACAACGCGCTCCCAAAATCTCTCTGGGATCCAGTGGACAGACAAGGT	1644		881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
Db	521	ThrTrpThrThrGlnProProGlnIleLeuLeuIleIleIleIleIleIleIleIleIle	540		2725	ATTATGTGGAAGTGGATAGGAGAACTCCAGCTCTCAATAGCC	2766
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Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 13  
US-10-369-214-133  
; Sequence 133, Application US/10369214  
; Publication No. US20030232037A1  
; GENERAL INFORMATION:  
; APPLICANT: Groot, Pieter C.  
; APPLICANT: Berghenhegouwen van, Bram J.  
; APPLICANT: Oosterhout van, Antoon J.M.  
; TITLE OF INVENTION: Genes involved in immune related responses observed  
; TITLE OF INVENTION: with asthma  
; FILE REFERENCE: P53837US00  
; CURRENT APPLICATION NUMBER: US/10/369,214  
; CURRENT FILING DATE: 2003-02-15  
; PRIOR APPLICATION NUMBER: EP 00202867.8  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
; PRIOR FILING DATE: 2001-08-16  
; NUMBER OF SEQ ID NOS: 139  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 133  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (1)..(914)  
; OTHER INFORMATION: /note="Human CLC1"  
US-10-369-214-133

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4751.00 Matches: 912  
Percent Similarity: 99.89% Conservative: 1  
Best Local Similarity: 99.78% Mismatches: 0  
Query Match: 93.52% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-18 (1-2813) x US-10-369-214-133 (1-914)

QY 25 ATGGGGCCATTAAAGAGTTCTGTGTTCACTTCATCTTCACTTCTAGAGGGCCCTG 84  
Db 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuGluGlyAlaLeu 20  
QY 85 AGTAATCACTATTCACTGAGTGAACAAATGGCTATGAGGCAATTCCTGCAATCGAC 144  
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40  
QY 145 CCCAATGTGCCAGAGATCAACACTCATTCAACAATAAAGACATGTGACCCAGGCA 204  
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60  
QY 205 TCTCTGTATCTCTTTGAAGTACAGAAAGCGATTATTTCAAAAATGTTGCCATTTTG 264  
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80  
QY 265 ATTCCTGAACATGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrLys 100  
QY 325 AATGCTGATGTTCTGCTCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120  
QY 385 CAGATGGCACTGTGGAGAGGGTGAAGATCCACTCACTCTGATTCATTGCA 444  
Db 121 GlnMetGlyAsnGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 445 GGAAGAAAGTACTGAATATGACCAAGGTAGGGCATTTCTCCATGATGGGCTCAT 504  
Db 141 GlyLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160

QY 505 CTACGATGGGAGTATTTGACGAGTACAAATAATGATGAGAAATCTACTTATCCAAATGA 564  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180  
QY 565 AGAATACAGCAGTAAGATGTTTACAGAGTATTTACTGTACAAATGTAAGAGAGTGT 624  
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
QY 625 CAGGAGGACAGTCTTACACAAAAGATGCACATTCAATAAGTAACAGGACTCTATGAA 684  
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220  
QY 685 AAAGGATGTGAGTTTGTCTCCAATCCCGCAGACGAGAGAGGCTTCTATATGTTTGA 744  
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
QY 745 CAACATGTTGATTTCTATAGTTGAATCTGTACAGAACAAAACCAACAAAGAGCTTCA 804  
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY 805 AACAGCAAAATCAAAATCTCCGAAGCACATGGGAAGTGCATCCGTGATTCGTGAG 864  
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY 865 GACTTTAAGAAAACCACTCTCTATGACAAACAGCCACCAATCCCACTTCTCATTTGCTG 924  
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
QY 925 CAGATTGGACAAAAGATTTGTGTTAGTCTTGTACAAATCTGGAGAGCATGGCGTGGT 984  
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCGCTCAATCGACTGAATCAAGCAGCGCAGCTTTTCTCTCTGACAGACTGTGAGCTG 1044  
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QY 1045 GGGTCTCTGGTGGGATGGTGACATTTGACAGTGTGTCCTGATGTACAAAGTGAATCAT 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuLeu 360  
QY 1105 CAGATAACAGTGGGAGTGAAGGACACACTGCGCAAAAGATTACTTGCAGACAGCTTCA 1164  
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QY 1165 GGAGGAGCTCCATCTGACAGCGGCTTCGATCGCATTTACTGTGATTAAGGAAGAAATAT 1224  
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QY 1225 CCAACTGATGATCTCAAAATTTGCTGCTGACGATGGGGAAGACAACTATAAGTGGG 1284  
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QY 1285 TGCTTTAAGAGGTCAACAAAGTGTGCTCATCTCCACAGCTGCTTTGGGGCCCTCT 1344  
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QY 1345 CGAGCTCAAGAACTAGAGGAGCTGCCAAAATGACAGAGGTTTACAGACATATGTTCA 1404  
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QY 1405 GATCAAGTTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTCATCAGAAATGA 1464  
Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGACTTAAGGATTAACCTCCAGAACACCCAG 1524  
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QY 1525 TGGATCAATGGCACAGTGCATCGTGGACAGCACCGCTGGGAAAGACACTTTGTTTCTTATC 1584  
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QY 1585 ACTGTGACAAACGAGCGCTCCCAAAATCTTCTCTGGGATCCCACTGCGAGACAGAGAGGT 1644

Db 521 ThrTrpThrThrGlnProGlnLeuLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
QY 1645 GGCTTTGTAGTGACAAAACCAAAATGGCTACTCTCAATCCAGGCAATGCTAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaLysLeuGlnLeuProGlyLeuAlaLys 560  
QY 1705 GTTGCACTTGAATAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGCTGACG 1764  
Db 561 ValGlyThrTrpLysThrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCGTGCGTCAATGCTACCTGCTCCCAATACAGTCACTTCCAAAACGACAAAGGAC 1824  
Db 581 SerArgAlaSerAsnAlaThrLeuProProLleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAATCCCGAGCCCTGCTAGTATTATGCAATATTGCGCAAGGACCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValThrAlaAsnLeuArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATTGAATCAGTGAATGGAATAACAGTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuLeuGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GNACTACTGGATAATGGAGCAGGTGCTGATCTAAGATGACGGTGTCTTACTCAAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValThrSerArg 660  
QY 2005 TATTTCAACACTTATGACAGCAATGCTAGATACAGTGAATGGAATAACAGTTACCTTG 2064  
Db 661 TyrPheThrThrTyraSpThrAsnGlyArgThrValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAACGAGCCAGCAGGAGTGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGCG 2124  
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QY 2125 TGGATTGAGATGATGAATACATGGAATCCCAAGACCTGAAATTAATAAGGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAGCAAGTGTGTTTCAGCAGACACNTCTCGGAGGCTCATTTGTGCTTCT 2244  
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QY 2245 GATGTCCTCAATGCTCCATACCTGATCTCTTCCACCTGCGCAATCACCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuAsn 760  
QY 2305 GCGGAAATTCAGGGGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATAT 2364  
Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspThr 780  
QY 2365 GACCATGGAACAGCTCAAGATATATCATTCGAATAAGTCAAGTATCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrrilleleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAGTTCATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCAAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGCAAGCTTTTGTGTTAAACGAAACAACTTCTTTGAAATGGCAGACATCTT 2544  
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QY 2605 CGAGTATCTTTGTTTATTCCTCCACAGCTCCGCGACAGACACCTAGTCTGATGAACG 2664  
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QY 2665 TCTGCTCTTGTCTTAATATTCATATCAACAGCACCATTCCTGCAATTCATTTTAAAA 2724

Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
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; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005PI  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
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; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388  
Alignment Scores:  
Pred. No.: 0 Length: 869  
Score: 4476.00 Matches: 858  
Percent Similarity: 99.85% Conservative: 1  
Best Local Similarity: 99.54% Mismatches: 3  
Query Match: 88.11% Indels: 0  
DB: 14 Gaps: 0  
US-09-049-696-18 (1-2813) x US-10-106-698-6388 (1-869)

QY 181 ATAAAGCACTGTGACCCAGGCATCTCTGTATCTGTGTTGAAGCTACAGAAAGCGATTT 240  
Db 8 IleArgHisGluValThr\*\*\*AlaSerLeuTyrrillePheGluAlaThrGlyLysArgPhe 27  
QY 241 TATTTCAAAATGTTGCCATTTTGAATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300  
Db 28 TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrrVal 47  
QY 301 AGACCAAACTTGAGACCTACAAAATGCTGATGTTCTGTGTTGCTGATCTCTCTCTCCA 360  
Db 48 ArgProLysLeuGluThrTyrrilleAsnAlaAspValLeuValAlaGluSerThrProPro 67  
QY 361 GGTATGATGAACCTACACTGAGCAGATGGCAACTGTGGAGAGAGGCTGAAGGATC 420  
Db 68 GlyAsnAspGluProTyrrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle 87  
QY 421 CACCTCACTCTGATTTTCATTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480  
Db 88 HisLeuThrProAspPheIleAlaGlyLysLeuAlaGluTyrrGlyProGlnGlyArg 107  
QY 481 GCATTTGCTCAGTGGGCTCATCTACGATGGGAGTATTTGACGAGTACATAATGAT 540  
Db 108 AlaPheValHisGluTrpAlaHisLeuArgTrpGlyValPheAspGluTyrrAsnAsnAsp 127  
QY 541 GAGAAATTCCTTACTTATCCAAATGGAAGATACAGCAGTAAAGATGTTTCAGCAGGTATTACT 600  
Db 128 GluLysPheTyrrLeuSerAsnGlyArgIleGlnAlaValArgCysSerAlaGlyIleThr 147  
QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660

148	Db		GlyThrAsnValValLysCysGlnGlySerCysTyrThrLysArgCysThrPhe	167
661	Qy		AATAAGTAACAGAGACTCTATGAAAGAGATGCTGAGTTTGTCTCCAAATCCCGCCAGACG	720
168	Db		AsnLysValThrGlyLeuTyrGluLysGlyCysGluPheValLeuGlnSerArgGlnThr	187
721	Qy		GAGAAGGTTCTATAATTTTGCACAAATGTTGATTTCTATAGTTGAATTTCTGTACAGAA	780
188	Db		GluLysAlaSerIleMetPheAlaGlnHisValAspSerIleValGluPheCysThrGlu	207
781	Qy		CAAAACCAACAAGAGCTCCAAACAAGCAAAATCAAAATGCAATCTCCGAAGCACA	840
208	Db		GlnAsnHisAsnLysGluAlaProAsnLysGlnAsnGlnLysCysAsnLeuArgSerThr	227
841	Qy		TGGGAAGTGATCCGCTGATTTCTGAGACTTTTAAGAAAACCACTCTATGACAAACAGCCA	900
228	Db		TrpGluValIleArgAspSerGluAspPheLysLysThrThrProMetThrThrGlnPro	247
901	Qy		CCAAATCCCACTTCTCATTTGCTGCAGATTGGACAAAGAAATTTGTTAGTCTCTTGAC	960
248	Db		ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp	267
961	Qy		AAATCTGGAAGCATCGCACTGTTAAACCGCTCAATCGACTGAATCAACAGCAGCCAGCTT	1020
268	Db		LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu	287
1021	Qy		TTCTCTGCTGCACAGACTGAGCTGGGCTCTGGGTTGGGATGGTGACATTTGACAGTGT	1080
288	Db		PheLeuLeuGlnThrValGluLeuGlySerTrpValGlyMetValThrPheAspSerAla	307
1081	Qy		GCCCATGTACAAAGTGAATCTATACAGATAACAGTGGCAGTGCAGGGACACATCGCC	1140
308	Db		AlaHisValGlnSerGluLeuIleGlnIleAsnSerGlySerAspArgAspThrLeuAla	327
1141	Qy		AAAGATTACCTGCAGCAGCTTCAGAGGAGCTGCATCTGCAGCGGGCTTCGATCGGCA	1200
328	Db		LysArgLeuProAlaAlaAlaSerGlyThrSerIleCysSerGlyLeuArgSerAla	347
1201	Qy		TTTACTGTGATTAGGAAGAAATATCAACTGATGATCTGAAATTTGTGCTGTCGCGAT	1260
348	Db		PheThrValIleArgLysLysTyrProThrAspGlySerGluIleValLeuLeuThrAsp	367
1261	Qy		GGGGAAGACAACACTATAAGTGGTCTTTTACGAGGTCAAAACAAGTGGTGGCCATCATC	1320
368	Db		GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle	387
1321	Qy		CACACAGTCGCTTGGGGCCCTCTGCAGCTCAAGAACTAGAGAGCTGTCCAAATGACA	1380
388	Db		HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluLeuSerLysMetThr	407
1381	Qy		GGAGTTTACAGACATATGCTTCAGATCAAGTTCAAGAAACAATGGCCCTCATTTGATGTTT	1440
408	Db		GlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsnGlyLeuIleAspAlaPhe	427
1441	Qy		GGGGCCCTTTCATCAGAAATGAGCTGTCTCAGCGCTCCATCCAGCTTGAGAGTAAG	1500
428	Db		GlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSerIleGlnLeuGluSerLys	447
1501	Qy		GGATTAAACCTCCAGAAACAGCAGTGGATGAATGGCACAGTGTCTGGACAGCACCGTG	1560
448	Db		GlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrValIleValAspSerThrVal	467
1561	Qy		GGAAAGGACACTTTGTTCTTATCACTGGACAAACGAGCTCCCAATTCCTCTCTGG	1620
468	Db		GlyLysAspThrLeuPheLeuIleThrTrpThrThrGlnProGlnIleLeuLeuTrp	487
1621	Qy		GATCCAGTGGACAGAGCAGTGGCTTTGATGTGCACAAACCAACCAAAATGGCTAC	1680
488	Db		AspProSerGlyGlnLysGlnGlyPheValValAspLysAsnThrLysMetAlaTyr	507
1681	Qy		CTCCAAATCCAGGCATTTGCTAAAGTTGGCATTGGCAATGACAGTCTGCAAGCAAGCTCA	1740
508	Db		LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyrSerLeuGlnAlaSerSer	527
1741	Qy		CAAACTTGCCCTGACTGTCACGTCCGCGCCCAATGCTACCTGCTCCCAATATACA	1800
528	Db		GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr	547
1801	Qy		GTGACTTCCAAAACGAAACAGACACCAAGCAAAATTTCCCGCCCTCTGGTAGTTATGCA	1860
548	Db		ValThrSerLysThrAsnLysAspThrSerLysPheProSerProLeuValValTyrAla	567
1861	Qy		AATATTGCCAAGAGAGCTCCCAATTTCTAGGCCAGTGTACAGCCCTGATTCAAATCA	1920
568	Db		AsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerValThrAlaLeuIleGluSer	587
1921	Qy		GTGAATGGAAAAACAGTTACCTTCGAACTCTGATATGAGAGAGTGTGATCTACT	1980
588	Db		ValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThr	607
1981	Qy		AAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGACACGAATGGTAGATACAGT	2040
608	Db		LysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSer	627
2041	Qy		GTAAAGTGGCGGCTCTGGAGAGATTAAACGAGCAGACGAGAGTGTATACCCAGCAG	2100
628	Db		VallysValArgAlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGln	647
2101	Qy		AGTGGAGCAGTGTACATACCTGGCTGGATTGAGATGATGAATAACAATGGAATCCACCA	2160
648	Db		SerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGluIleGlnTrpAsnProPro	667
2161	Qy		AGACTGAAATTAATAAGGATGATTTCAACACAAAGCAAGTGTGTTTCAGCAGACATCC	2220
668	Db		ArgProGluIleAsnLysAspValGlnHisLysGlnValCysPheSerArgThrSer	687
2221	Qy		TGGGAGGCTCATTTGTGCTCTGATGTCCCAATGTCCCATACCTGATCTCTCCCA	2280
688	Db		SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro	707
2281	Qy		CCTGGCCAAATCACCAGCTGAAAGCGGAAATTCACGGGGCAGTCTCATTAATCTGACT	2340
708	Db		ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThr	727
2341	Qy		TGGCAGAGTCTCTGGGATGATTATGACCATGGAACAGCTCAACAGTATATCATTCGAATA	2400
728	Db		TrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIle	747
2401	Qy		AGTCAAGTATTTCTTGATCTCAGACACAGTTCATGATCTCTTCAAGTGAATACTACT	2460
748	Db		SerThrSerIleLeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThr	767
2461	Qy		GCTCTCATCCCAAGGAGCCAACTCTGAGGAAGTCTTTTCTTTTAAACCCAGAAAACATT	2520
768	Db		AlaLeuIleProLysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIle	787
2521	Qy		ACTTTTGGAAATGGCACAGATCTTTTCAATTGCTTATTCAGCTGTGATAGTTCGATCTG	2580
788	Db		ThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeu	807
2581	Qy		AAATCGAAATATCCAACTTCACAGATCTCTTTGTTTATTTCTCCACAGACTCCGCCA	2640
808	Db		LysSerGluIleSerAsnIleAlaArgValSerLeuPheIleProProGlnThrProPro	827
2641	Qy		GAGACACTAGTCTGATGAAAGCTGCTGCTCTGCTTAATATTCATATCAACAGCACC	2700
828	Db		GluThrProSerProAspGluThrSerAlaProCysProAsnIleHisIleAsnSerThr	847
2701	Qy		ATTCTCGCATTCACATTTTAAAAATATGTGAACTGTAGGAGACTGCGAGCTGTCTCA	2760
848	Db		IleProGlyIleHisIleLeuLysIleMetTrpLysTrpIleGlyGluLeuGlnLeuSer	867
2761	Qy		ATAGCC 2766	
868	Db		IleAla 869	



Db 461 SerAspGlnValGlnAsnAsnGlyLeuValAspAlaPheAlaLeuSerSerGlyAsn 480  
 Qy 1462 GGAGCTGCTCTCAGCGCTCCATCCAGCTTCAGAGTAAGGATTAACCCCTCCAGAACAGC 1521  
 Db 481 AlaAlaIleAlaGlnHisSerIleGlnLeuGluSerArgGlyValAsnLeuGlnAsnAsn 500  
 Qy 1522 CAGTGGATGAATGGACACAGTGTGTCAGACAGCAGCCGTTGGGAAGAGACATTTGTTCTT 1581  
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 Qy 1592 ATCAGCTGGACAAAGCAGCCTCCCAATCTTCTCTGGATCCAGTGGAGCAGAACAA 1641  
 Db 521 IleThrTrpThrHisProProThrIlePheIleTrpAspProSerGlyValGluGln 540  
 Qy 1642 GGTGCTTTGAGTGGACAAACACCAAAATGGCTTCCAAATCCAGTCCAGGCAAGCA 1641  
 Db 541 AsnGlyPheIleLeuAspThrThrThrIysValAlaTyrLeuGlnValProGlyThrAla 560  
 Qy 1702 AAGTTGGCAGTTGGAATACAGTCTGCAAGCAGCTCACAACTTCAGCTGACTGCTC 1761  
 Db 561 LysValGlyPheTrpLysTyrSerIleGlnAlaSerSerGlnThrLeuThrLeuVal 580  
 Qy 1762 AGCTCCGCTGCTCCAACTACCTGCTGCTCCAAATACAGTCACTTCCAAACGAAACAG 1821  
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 Qy 1822 GACACAGCAAAATCCCAAGCCTCTGTGTAGTTATGCAAAATATTCGCAAGAGCCTCC 1881  
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 Qy 1942 TTGGAATCTACTGATAATGAGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2001  
 Db 641 LeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrIysAsnAspGlyValTyrSer 660  
 Qy 2002 AGGTATTTCACTTATGACACGAATGGTGTAGATACAGTGTAAAGTGGGGCTCTGGGA 2061  
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 Qy 2659 GAAAGCTGCTCTCTTGTCTTAATATTCATATCAACAGCAGCAGTCTCTGGCATTCACATT 2718  
 Db 876 AspSerThrProProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal 895  
 Qy 2719 TTAAAAATTATGTGAGTGTGATAGGAGAACTGCAGCTGTCAATA 2763  
 Db 896 LeuLysIleMetTrpLysTrpLeuGlyGluMetGlnValThrLeu 910

Search completed: October 15, 2004, 18:10:56  
 Job time : 386.484 secs

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model  
Run on: October 15, 2004, 16:01:09 ; Search time 36.6799 Seconds  
(without alignments)  
6085.795 Million cell updates/sec

Title: US-09-049-696-19  
Perfect score: 3040  
Sequence: 1 AACAAAGTGTCATCATC.....AAATGCTAAACAACCTGGTA 1683

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 478139 seqs, 66318000 residues  
Total number of hits satisfying chosen parameters: 956278  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Database : Issued Patents AA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	2521	82.9	914	4	US-10-270-595-6
3	2518	82.8	914	3	US-09-193-562D-28
4	2518	82.8	914	4	US-10-055-412B-28
5	1906	62.7	913	4	US-09-623-624-2
6	1906	62.7	913	4	US-10-270-595-2
7	1477	48.6	917	3	US-09-049-696-41
8	1203	39.6	228	1	US-08-469-667-9
9	1203	39.6	228	3	US-09-224-110-9
10	1203	39.6	228	5	PCT-US93-07289-9
11	1198	39.4	903	3	US-09-193-562D-46
12	1198	39.4	903	4	US-10-055-412B-46

ALIGNMENTS

RESULT 1

US-09-623-624-6  
; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

Sequence 18, Appl  
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Sequence 12, Appl  
Sequence 12, Appl  
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Sequence 170, App



; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-623-624-6

Alignment Scores:

Pred. No.: 1,85e-239 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 4 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-623-624-6 (1-914)

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QY 63 GAGCTGTCCAAATCACAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122  
Db GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsn 466  
QY 123 GGCCTCATGTATGCTTTTGGGGCCCTTCATCAGGAATGGAGTGTCTCTCAGCGTCC 182  
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QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCCAGTGGATGAATGCACAGT 242  
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QY 243 ATCTGGGACAGCACCGTGGGAAGGACACTTTGTTTCTTATCACCTGGACACGAGCCT 302  
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RESULT 2

US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23

; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-270-595-6

Alignment Scores:
Pred. No.: 1-85e-239 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 4 Gaps: 0

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DB 707 IleGlnTrpAsnProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
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QY 963 ATACCTGATCTCTCCACCTGCGCAAAATCACCGACCTGAAAGCGGAAATTCACGGGGG 1022
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QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTGTATCTCAGAGACAAGTTCAATGAATCT 1142
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DB 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
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DB 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 3
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; Sequence 28, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193,562D
; PRIORITY FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 28
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-193-562D-28

Alignment Scores:
Pred. No.: 3.66e-239 Length: 914
Score: 2518.00 Matches: 487

Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.80% Mismatches: 0  
Query Match: 82.83% Indels: 0  
DB: 3 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-193-562D-28 (1-914)

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DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466

QY 123 GCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCC 182  
DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486

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QY 243 ATCGTGGACAGCACCGTGGGAAGACACTTTTCTTATCACCTGGACACGCGCT 302  
DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526

QY 303 CCCCCAATCTCTCTCGGATCCCAAGTGGACAGCAAGTGGCTTTGTAGTGACAAA 362  
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QY 363 AACACAAAATGGCTTACCTCAAACTTGCCTGACTGTCTACCTGCCGTCCGCTCAATGCT 482  
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QY 483 ACCCTGCTCCAAATACAGTACTTCCAAAACGAAACAGGACACAGCAAAATCCCCAGC 542  
DB 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606

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QY 1203 TTTAAACCAGAAACACTTACTTTGAAATGCGCAGATCTTTTCATTCGCTATTCCAGGCT 1262

DB 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846

QY 1263 GTTGATAAGTCTGATCTGAAATATCCAAATATCCCAATTCGACGAGTATCTTTGTTATT 1322

DB 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866

QY 1323 CTTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAAACGTCGCTCTCTGCTTAAT 1382

DB 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886

QY 1383 ATTCATATCAACAGACCACTCTCGCATTCACATTTTAAAAATATGTGGAAGTGGATA 1442

DB 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906

QY 1443 GGAGAACTGCAGCTGCTCAATAGCC 1466

DB 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 4

US-10-055-412B-28

; Sequence 28, Application US/10055412B

; Patent No. 6692939

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0058

; CURRENT APPLICATION NUMBER: US/10/055,412B

; CURRENT FILING DATE: 2001-10-29

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-055-412B-28

Alignment Scores:

Pred. No.: 3,66e-239 Length: 914

Score: 2518.00 Matches: 487

Percent Similarity: 100.00% Conservative: 1

Best Local Similarity: 99.80% Mismatches: 0

Query Match: 82.83% Indels: 0

DB: 4 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-055-412B-28 (1-914)

QY 3 CAAAGTGTGCTCATCATCCACAGTGCCTTTGGGGCCCTCTGAGCTCAAGACTAGAG 62

DB 427 GlnSerGlyAlaIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446

QY 63 GAGCTGTCCTCAAAATCAGAGGCTTACAGACATATGCTCAGATCAAGTTCAGAACAT 122

DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466

QY 123 GCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCC 182

DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486

QY 183 ATCCAGCTTGAGATGAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCAGATG 242

DB 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506

QY 243 ATCGTGGACAGCACCGTGGGAAGACACTTTTCTTATCACCTGGACACGCGCT 302

DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526

QY 303 CCCCCAATCTCTCTCGGATCCCAAGTGGACAGCAAGTGGCTTTGTAGTGACAAA 362

DB 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546

QY 363 AACACAAAATGGCTTACCTCAAACTTGCCTGACTGTCTACCTGCCGTCCGCTCAATGCT 482

DB 547 AsnThrLysMetAlaThrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566

QY 423 AGCTGCAAGCAGCTCAAACTTGCCTGACTGTCTACCTGCCGTCCGCTCAATGCT 482

DB 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586

QY 483 ACCCTGCTCCAAATACAGTACTTCCAAAACGAAACAGGACACAGCAAAATCCCCAGC 542

DB 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606

QY 543 CCTCTGTTAGTTATGCAATATTCGCAAGAGCCTCCCAATCTCGAGCCGCTGTC 602

DB 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626

QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACAGTGTACCTTGGAACTACTGGATATGGA 662

DB 627 ThrAlaLeuIleGluSerValIleGlnGlyLysThrValThrLeuGlnLeuLeuAspAsnGly 646

QY 663 GCAGTGTGCTGCTACTAAGATGACGGTGTCTACTCAAGGTATTTTCAACTTATGAC 722

DB 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666

QY 723 ACGAATGTTAGATACAGTGTAAAGTCCGGCTCTGGAGGAGTTAACCGCCAGCAGCG 782

DB 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686

QY 783 AGAGTGTATCCCGCAGAGTGGAGCTGTACATACCTGGCTGGATTTGAGATGATGAA 842

DB 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706

QY 843 ATACAATGGAATCCCAAGACCTGAAATTAATGAGATGATTTTCAACACAGCAAGTGT 902

DB 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726

QY 903 TGTTTCAGAGACATCTCGGAGGCTCATTTGTGCTTCTGATGTCCTCAAAATGCTCCC 962

DB 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746

QY 963 ATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGC 1022

QY 123 GGCTCATTCATGCTTTGGGGCCCTTTTCATCAGGAATGAGCTGCTCTCAGCGCTCC 182  
 Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
 QY 183 ATCCAGCTTGAGAGTAGGATTAAACCTCCAGAACAGCCAGTCGATGGAATGCGACAGTG 242  
 Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
 QY 243 ATCGTGGACAGCAGCCGTGGGAAGGACACTTTGTTCTTATCATCCTGGAGCAACGCGAGCT 302  
 Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
 QY 303 CCCAAATCCCTCTCTGGGATCCAGTGAGACAGCAAGCGTGGCTTTGTAGTGGACAA 362  
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 QY 363 AACACCAAAATGCCCTACCTCCAAATCCCAAGGATTCCTAAGGTTGGCACTTGGAAATAC 422  
 Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566  
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 Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
 QY 543 CCTCTGGTAGTTATGCAAAATATCCCAAGAGGCTCCCAATTCACAGGCCAGTGTC 602  
 Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
 QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACAGTTCACCTGGAACACTACTGATATGGA 662  
 Db 627 ThrAlaLeuIleGlnSerValAsnGlyLysThrValThrLeuGlnLeuLeuAspAsnGly 646  
 QY 663 GCAGTGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGAC 722  
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 QY 723 AGAATGTAGATACAGTGTAAAGTGGGGCTCTGGAGGAGTTAAAGCAGCCAGAGCGG 782  
 Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686  
 QY 783 AGAGTATACCCACAGCAGTGGACACTGTACATACCTGGCTGGATTGAGAATGATGAA 842  
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 QY 843 ATACAATGGAATCCACCAAGACCTGAAATTAATAGGATGATTTCAACACACAGCAAGTG 902  
 Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726  
 QY 903 TGTTTCAGCAGAAATCCTCGGAGGCTCATTTGGCTTCTGATGTCCTCAAAATGCTCCC 962  
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 QY 963 ATACTGATCTCTTCCACCTGGCCAAATCACCGACCTGAGGCGGAAATTCACGGGGGC 1022  
 Db 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766  
 QY 1023 AGTCTCATTAATCTGACTTGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCAC 1082  
 Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786  
 QY 1083 AAGTATATCATTCGAATGACAGTATTTCTGATCTCAGAGCAAGTTCAATCAATCT 1142  
 Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806  
 QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCCAAGGACCAACTCTGAGGAGTCTTTTGG 1202  
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QY 1203 TTATAACCGAAAAACATTACTTTTGAATAATGGCACAGATCTTTTCATTGCTATTACGGCT 1262  
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 QY 1383 ATTCATATCAACAGACACCACTTCTGCGCATTCACATTTTAAAAATTAATGTGGAAGTGGATA 1442  
 Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
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 Db 907 GlyGluLeuGlnLeuSerIleAla 914  
 RESULT 5  
 ; Sequence 2, Application US/09623624  
 ; Patent No. 6576434  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Magainin Pharmaceuticals, Inc.  
 ; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
 ; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
 ; TITLE OF INVENTION: Disorders  
 ; FILE REFERENCE: 36870-5073-WO  
 ; CURRENT APPLICATION NUMBER: US/09/623,624  
 ; CURRENT FILING DATE: 2000-09-06  
 ; PRIOR APPLICATION NUMBER: PCT/US99/04703  
 ; PRIOR FILING DATE: 1999-03-03  
 ; PRIOR APPLICATION NUMBER: US 08/697,360  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,419  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,440  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,471  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,471  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,472  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/697,473  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,105  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,110  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/702,168  
 ; PRIOR FILING DATE: 1996-08-23  
 ; PRIOR APPLICATION NUMBER: US 08/980,872  
 ; PRIOR FILING DATE: 1997-12-01  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 2  
 ; LENGTH: 913  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-09-623-624-2  
 Alignment Scores:  
 Pred. No.: 7,64e-179 Length: 913  
 Score: 1906.00 Matches: 365  
 Percent Similarity: 87.30% Conservative: 61  
 Best Local Similarity: 74.80% Mismatches: 56  
 Query Match: 62.70% Indels: 6  
 DB: 4 Gaps: 3  
 US-09-049-696-19 (1-1683) x US-09-623-624-2 (1-913)

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QY 63 CAGCTGTCCTCAAAATGACAGAGGTTTACAGACATATGCTCAGATCAAGTTTCAAGCAAT 122  
Db GlnLeuSerLysMetThrGlyGlyLeuGlnThrThrSerSerAspGlnValGlnAsnAsn 467  
QY 123 GGCCTCATGTGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTGTCTCTCAGCGCTCC 182  
Db GlyLeuValAspAlaPheAlaAlaLeuSerSerGlyAsnAlaAlaIleAlaGlnHisSer 487  
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGTAGTAAAGGACAGTG 242  
Db IleGlnLeuGluSerArgGlyValAsnLeuGlnAsnGlnTrpMetAsnGlySerVal 507  
QY 243 ATCTGGGACAGACCGTGGGAAAGACACTTTGTTCTTATCACCTGGACACGAGCT 302  
Db IleValAspSerSerValGlyLysAspThrLeuPheLeuIleThrTrpThrHisPro 527  
QY 303 CCCCAATCTCTCTCTGGATCCCATGACAGAGCAAGAGTGGCTTTGTAGTGACAAA 362  
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QY 363 AACACAAATGGCTTACTCCAAATCCAGGATCTAGCTAGCTGGGACCTTGGAAATAC 422  
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QY 423 AGCTGTCAGAGCAAGCTCAAAACCTTGACCTGACTGTCACTCCGCTCGCTCAATGCT 482  
Db SerIleGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaAlaSerAla 587  
QY 483 ACCCTGCTCCATTTACAGTACTTCCAAAACGAAACAGACACACGCAAAATCCCCAGC 542  
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QY 543 CTTCTGGTGTATGTCAAATATTCGCAAGAGCTCCCAATCTCCAGGCGGCTGTC 602  
Db ProValThrValThrAlaSerIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 627  
QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACAGTACTTGGAACTTGGAACTATGGA 662  
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QY 783 AGAGTGATACCCAGACAGTGGACGACTCATATACCTGGCTGGATTGAGATGATGA 842  
Db ArgAlaAlaProProLysAsnArgAlaMetThrIleAspGlyThrIleGlnAspGlyGlu 707  
QY 843 ATACAATGGAAATCCACCAAGACTGAAATTAATGAAGATGATGTTCAACACAGCAAGT 902  
Db ValArgMetAsnProProArgProGluThrSerThr-----ValGlnAspLysGlnLeu 725  
QY 903 TGTTTCAGGACAACTCTCGGAGCTCATTTGTGCTCTCTGCTGCTCCCA---AATGCT 959  
Db CysPheSerArgThrSerSerGlyGlySerPheValAlaThrAsnValProAlaAlaAla 745  
QY 960 CCCATACCTGATCTCTCCCACTGGCCAAATCACGACCTGAGGCGGAAATTCACGGG 1019  
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Db GlnAsnLeuValAsnLeuThrTrpThrAlaProGlyAspAspThrAspHisGlyArgAla 785

QY 1080 CACAAGTATATCATTCGAATAAGTACAGTATCTTGATCTCAGAGCAAGTTCATGAA 1139  
Db SerAsnThrIleIleArgMetSerThrSerIleValAspLeuArgAspHisPheAsnThr 805  
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QY 1200 TTGTTTAAACAGAAACATTTGAAATGCGACAGATCTTTTCATTGCTATTTCAG 1259  
Db GluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThrAspIlePheIleAlaIleGln 845  
QY 1260 GCTGTTGATAAGTGCATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGTT 1319  
Db AlaValAspLysSerAsnLeuLysSerGluIleSerAsnIleAlaArgValSerValPhe 865  
QY 1320 ATTCCTCCACAGACTCCCGCAGACACTAGTCTGTGATGAACCTGCTGCTCTGCTCT 1379  
Db IleProAlaGlnGluPro-----ProIleProGluAspSerThrProProCysPro 882  
QY 1380 AATATTATATCAACAGCACCATCTCTGCACTTCACTTTAAAAATATGTGGAAGTGG 1439  
Db AspIleSerIleAsnSerThrIleProGlyIleHisValLeuLysIleMetThrLysTrp 902  
QY 1440 ATAGAGAACTGCAGCTGTCAATA 1463  
Db LeuGlyGluMetGlnValThrLeu 910  
RESULT 6  
US-10-270-595-2  
; Sequence 2, Application US/10270595  
; Patent No. 6716603  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595  
; CURRENT FILING DATE: 2002-10-16  
; PRIOR APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
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; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 913  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-270-595-2  
Alignment Scores: 7.64e-179 Length: 913  
Pred. No.: 1906.00 Matches: 365  
Score: 87.30% Conservative: 61

Best Local Similarity: 74.80% Mismatches: 56  
 Query Match: 62.70% Indels: 6  
 DB: 4 Gaps: 3

US-09-049-696-19 (1-1693) x US-10-270-595-2 (1-913)

QY 3 CAAAGTGGTCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
 DB 428 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProAlaAlaIleGlyGluLeuGlu 447

QY 63 GAGCTGTCCTCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122  
 DB 448 GlnLeuSerLysMetThrGlyGlyLeuGlnThrTyrSerSerAspGlnValGlnAsnAsn 467

QY 123 GGCCTCATGATGCTTTTGGGGCCCTTTCATCAGGAAATGGAGCTCTCTCAGCGCTCC 182  
 DB 468 GlyLeuValAspAlaPheAlaLeuSerSerGlyAsnAlaIleAlaGlnHisSer 487

QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242  
 DB 488 IleGlnLeuGluSerArgGlyValAsnLeuGlnAsnAsnGlnTrpMetAsnGlySerVal 507

QY 243 ATCCGTGGACAGCAGCTGGGAAAGACACTTTTCTTATCACCTGGGACAAACGAGCCT 302  
 DB 508 IleValAspSerSerValGlyLysAspThrLeuPheLeuIleThrTrpThrHisPro 527

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QY 363 AACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTTGGCACTTGGAAATAC 422  
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QY 423 AGTCGCAAGCAGCTCACAACCTTGACCTGACCTGACCTGACCTGACCTGACCTGACCTG 602  
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QY 1200 TTGTTTAAACCAAGAAAACATTAATCTTTGAAAATGGCACAGATCTTTTCAATGCTATTCAG 1259  
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QY 1320 ATCTCTCCACAGACTCCGCCAGAGACACCTAGTCTGATGAACGCTCTCTCTCTCTCTCT 1379  
 DB 866 IleProAlaGlnGluPro-----ProlleProGluAspSerThrProCysPro 882

QY 1380 ATATTCATATCAACAGACACCATTCCTGCAATTCACATTTTAAATATATGGAAGTGG 1439  
 DB 883 AspIleSerIleAsnSerThrIleProGlyIleHisValLeuLysIleMetTrpLysTrp 902

QY 1440 ATAGGAGAACTCCAGCTGCTCAATA 1463  
 DB 903 LeuGlyGluMetGlnValThrLeu 910

RESULT 7  
 US-09-049-698-41  
 ; Sequence 41, Application US/09049698  
 ; Patent No. 6368792  
 ; GENERAL INFORMATION:  
 ; APPLICANT: BILLING-MEDEL, PATRICIA A.  
 ; APPLICANT: COHEN, MAURICE  
 ; APPLICANT: COLPITTS, TRACEY L.  
 ; APPLICANT: FRIEDMAN, PAULA N.  
 ; APPLICANT: HAYDEN, MARK  
 ; APPLICANT: KLASS, MICHAEL R.  
 ; APPLICANT: ROBERTS-RAPP, LISA  
 ; APPLICANT: RUSSELL, JOHN C.  
 ; APPLICANT: STROUPE, STEPHEN D.  
 ; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE  
 ; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL  
 ; NUMBER OF SEQUENCES: 51  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Abbott Laboratories  
 ; STREET: 100 Abbott Park Road  
 ; CITY: Abbott Park  
 ; STATE: IL  
 ; COUNTRY: USA  
 ; ZIP: 60064-3500  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/049,698  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/828,856  
 ; FILING DATE: 31-MAR-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Becker, Cheryl L.  
 ; REGISTRATION NUMBER: 35,441

REFERENCE/DOCKET NUMBER: 6068.US.P1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 847/935-1729

TELEFAX: 847/938-2623

TELEX:

INFORMATION FOR SEQ ID NO: 41:

SEQUENCE CHARACTERISTICS:

LENGTH: 917 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: No. 6368792e

US-09-049-698-41

Alignment Scores:

Pred. No.: 1.47e-136 Length: 917  
Score: 1477.00 Matches: 293  
Percent Similarity: 75.26% Conservative: 72  
Best Local Similarity: 60.41% Mismatches: 112  
Query Match: 48.59% Indels: 8  
DB: 3 Gaps: 5

US-09-049-696-19 (1-1683) x US-09-049-698-41 (1-917)

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QY 3 CAAGTGTGGCCATCATCACACAGTCGCTTTGGGCGCCTCTGCAGCTCAAGAACTAGAG 62
DB 428 GlnSerGlyAlaIleValHisPheIleAlaLeuGlyArgAlaAspGluAlaValle 447
QY 63 GAGCTGTCCAAATCACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAA 122
DB 448 GluMetSerLysIleThrGlyGlySerHisPheTyrValSerAspGluAlaGlnAsn 467
QY 123 GGCCTCATTGATGCTTTGGGCGCCTTTCATCAGGAATGGAGCTGCTCTCAGCGCTCC 182
DB 468 GlyLeuIleAspAlaPheGlyAlaLeuThrSerGlyAsnThrAspLeuSerGlnLys 487
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCAGCTGGAGTGAATGCCACAGTG 242
DB 488 LeuGlnLeuGluSerLysGlyLeuThrLeuAsnSerAsnAlaTrpMetAsnAspThrVal 507
QY 243 ATCTGTGAGCAGCAGCGTGGGAAAGGACACTTTGTTTATCACCTGGACAAACGCGAGCT 302
DB 508 IleIleAspSerThrValGlyLysAspThrPhePheLeuIleThrTrpAsnSerLeuPro 527
QY 303 CCCCAATCCTCTCTCGGATCCAGTGCAGACAGCAAGGCTGCTTGTAGTGGACAAA 362
DB 528 ProSerIleSerLeuTrpAspProSerGlyThrIleMetGluAsnPheThrValAspAla 547
QY 363 AACACCAAAATGGCCTTACCTCCAAATCCAGGAGTGTAAAGTTGGCAGCTTGGAAATAC 422
DB 548 ThrSerLysMetAlaTyrLeuSerIleProGlyThrAlaLysValGlyThrTrpAlaTyr 567
QY 423 AGTCTGCAAGCAAGCTCA-----CAAACCTTGACCTGACTGCTCAGTCCCGCTGCGTCC 476
DB 568 AsnLeuGlnAlaLysAlaAsnProGluThrLeuThrIleThrValThrSerArgAlaAla 587
QY 477 ATGCTACCTGCTCCAAATTACAGTACTTCCAAACAGAACAGACAGCACCAACCAATTC 536
DB 588 AsnSerValProIleThrValAsnAlaLysMetAsnLysAspValAsnSerPhe 607
QY 537 CCCAGCGCTCTGTAGTTATGCAATATATCGCAGGAGCGCTCCCAATCTCAGGCGCC 596
DB 608 ProSerProMetIleValTyrAlaGluIleLeuGlnGlyTyrValProValLeuGlyAla 627
QY 597 AGTGTCAAGCCCTGATGATGAATCAGTCAATGGAATAACAGTACCTTGGAACTACTGGAT 656
DB 628 AsnValThrAlaPheIleGluSerGlnAsnGlyHisThrGluValLeuGluLeuLeuAsp 647
QY 657 AATGGAGCAGCTGCTGATGCTACTAAGATGACGCTGCTACTCAAGTATTTCAACAAT 716
DB 648 AsnGlyAlaGlyAlaAspSerPheLysAsnAspGlyValTyrSerArgTyrPheThrAla 667
QY 717 TATGACACGAATGTTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTAAACGCAGCC 776

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# RESULT 8

US-08-469-667-9

; Sequence 9, Application US/08469667

; Patent No. 5733748

; GENERAL INFORMATION:

; APPLICANT: Yu, Guo-Liang

; APPLICANT: Rosen, Craig

; TITLE OF INVENTION: Colon Specific Genes and Proteins

; NUMBER OF SEQUENCES: 24

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,

; ADDRESS: Stewart & Olstein

; STREET: 6 Becker Farm Road

; CITY: Roseland

; STATE: NJ

; COUNTRY: USA

; ZIP: 07068-1739

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

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DB 668 TyrThrGluAsnGlyArgTyrSerLeuLysValArgAlaHisGlyGlyAlaAsnThrAla 687
QY 777 AGACGGAGAGTGATACCCACAGCAGACAGTGGACACTGTACATACCTGGCTGGATTGAGAA 836
DB 688 ArgLeuLysLeuArgProProLeuAsnArgAlaAlaTyrIleProGlyTyrPValValasn 707
QY 837 GATGAATACAAATGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAAG 896
DB 708 GlyGluIleGluAlaAsnProProArgProGluIleAsp---GluAspThrGlnThrThr 726
QY 897 CAAGTGTGTTTCAGCAGAACATCCTCGGAGGCTCATTTGGTGGCTTCTGATGTCCCAAT 956
DB 727 LeuGluAspPheSerArgThrAlaSerGlyAlaPheValValSerGlnValProSer 746
QY 957 GCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAGCGGAAATTCAC 1016
DB 747 LeuProLeuProAspGlnTyrProProSerGlnIleThrAspLeuAspAlaThrValHis 766
QY 1017 GGGGCGAGCTCTCATTAAATCTGACTTTGGACAGCTCCTCGGGATGATATTAGCAATCGAACA 1076
DB 767 GluAspLysIleIle---LeuThrTrpThrAlaProGlyAspAsnPheAspValGlyLys 785
QY 1077 GCTCAAGTATATCATTCGAATAAGTACAAGTATCTTGATCTCAGACAGCAAGTTCAT 1136
DB 786 ValGlnArgTyrIleIleArgIleSerAlaSerIleLeuAspLeuArgAspSerPheAsp 805
QY 1137 GAATCTCTCAAGTCAATACTACTCTCTCATCCCAAGGAGCAACTCTCGAGGAAGTC 1196
DB 806 AspAlaLeuGlnValAsnThrThrAspLeuSerProLysGluAlaAsnSerLysGluSer 825
QY 1197 TTTTGTGTTTAAACCAAGAAACATTTACTTTTGAATGGCAGACAGATCTTTTCAATGCTATT 1256
DB 826 PheAlaPheLysProGluAsnIleSerGluGluAsnAlaThrHisIlePheIleAlaIle 845
QY 1257 CAGGCTGTGATGAAGTGCATCTGAAATCAGAAATATCCAACTTCACGACGATCTTTG 1316
DB 846 LysSerIleAspLysSerAsnLeuThrSerLysValSerAsnIleAlaGlnValThrLeu 865
QY 1317 TTTTATCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAACACGCTGCTCTCTGT 1376
DB 866 PheIle---ProGlnAlaAsnProAspIleAspProThrProThrProThrProThr 884
QY 1377 CTAATATTATCATATCAACAGCAGCACTCTCTGCAATTCATTTTAAATATTGTGGAAG 1436
DB 885 ProAspLysSerHisAsnSer-----GlyValAsnIleSerThrLeuValLeuSer 901
QY 1437 TGGATAGGAGAACTG 1451
DB 902 ValIleGlySerVal 906

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; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/469,667  
 ; FILING DATE: 06-JUN-1995  
 ; CLASSIFICATION: 536  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Ferraro, Gregory D.  
 ; REGISTRATION NUMBER: 36,134  
 ; REFERENCE/DOCKET NUMBER: 325800-435  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 201-994-1700  
 ; TELEFAX: 201-994-1744  
 ; INFORMATION FOR SEQ ID NO: 9:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 228 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-469-667-9

Alignment Scores:  
 Pred. No.: 7,04e-110 Length: 228  
 Score: 1203.00 Matches: 228  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 39.57% Indels: 0  
 DB: 1 Gaps: 0

US-09-049-696-19 (1-1683) x US-08-469-667-9 (1-228)

QY	693	GTCTACTCAAGTATTTCACACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGG	752
Db	1	ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg	20
QY	753	GCTCTGGGAGGAGTTAAACCCAGCCAGCAGGAGTATACCCAGAGTGGAGACTG	812
Db	21	AlaLeuGlyGlyValAsnAlaAlaArgValIleProGlnGlnSerGlyAlaLeu	40
QY	813	TACATACCTGGCTGATGAGAAATGATGAAATGAAATGAAATGAAATGAAATGAAAT	872
Db	41	TyrIleProGlyTyrIleGluAsnAspGluIleGlnTrpAsnProArgProGluIle	60
QY	873	AATAAGATGATGTTCAACACAAAGAGTGTCTTTTTCAGCAGAACATCTCTCGGAGGCTCA	932
Db	61	AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySer	80
QY	933	TTTGTGGCTTCTGATGCTCCCAATGCTCCCATACCTGATCTCTCCACCTGGCCAAATC	992
Db	81	PheValAlaSerAspValProAsnAlaProIleProAspLeuPheProGlyGlnIle	100
QY	993	ACCGACCTGAAGGGGAAATTCACGGGGCAGTCTCATTAAATCTGACTTGGACACTCCT	1052
Db	101	ThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaPro	120
QY	1053	GGGATGATTTATGACCATGGAACAGCTCACAGTATATCATTCGAATAAGTACAGTATT	1112
Db	121	GlyAspAspTyrAspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIle	140
QY	1113	CTTGATCTCAGAGACAGCTTCAATGAATCTCTCAAGTGAATACTACTGCTCTCATCCCA	1172
Db	141	LeuAspLeuArgAspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIlePro	160
QY	1173	AAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACCCAGAAAACATTACTTTTGAAAT	1232
Db	161	LysGluAlaAsnSerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsn	180
QY	1233	GGCAGATCTTTTCATTGCTATTTCAGGCTGTTGATAGGTGCGATCTGAAATCAGAAATA	1292
Db	181	GlyThrAspLeuPheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIle	200
QY	1293	TCCACATGTCACGAGTATCTTTGTTTATCTCTCCAGAGCTCCGCCAGACACCTAGT	1352
Db	201	SerAsnIleAlaArgValSerLeuPheIleProGlnThrProProGluThrProSer	220

QY 1353 CTTGATGAACAGTCTGCTCTTCTTCT 1376  
 Db 221 ProAspGluThrSerAlaProCys 228

# RESULT 9

US-09-224-110-9  
 ; Sequence 9, Application US/09224110  
 ; Patent No. 6337195  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Yu, Guo-Liang  
 ; APPLICANT: Rosen, Craig  
 ; TITLE OF INVENTION: Colon Specific Genes and Proteins  
 ; NUMBER OF SEQUENCES: 24  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,  
 ; STREET: 6 Becker Farm Road  
 ; CITY: Roseland  
 ; STATE: NJ  
 ; COUNTRY: USA  
 ; ZIP: 07068-1739  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/224,110  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/469,667  
 ; FILING DATE: 06-JUN-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Ferraro, Gregory D.  
 ; REGISTRATION NUMBER: 36,134  
 ; REFERENCE/DOCKET NUMBER: 325800-435  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 201-994-1700  
 ; TELEFAX: 201-994-1744  
 ; INFORMATION FOR SEQ ID NO: 9:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 228 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-09-224-110-9

Alignment Scores:  
 Pred. No.: 7,04e-110 Length: 228  
 Score: 1203.00 Matches: 228  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 39.57% Indels: 0  
 DB: 3 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-224-110-9 (1-228)

QY	693	GTCTACTCAAGTATTTCACAACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGG	752
Db	1	ValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArg	20
QY	753	GCTCTGGGAGGAGTTAAACCCAGCCAGCAGGAGTATACCCAGCAGAGTGGAGACTG	812
Db	21	AlaLeuGlyGlyValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeu	40
QY	813	TACATACCTGGCTGATGAGAAATGATGAAATGAAATGAAATGAAATGAAATGAAAT	872
Db	41	TyrIleProGlyTyrIleGluAsnAspGluIleGlnTrpAsnProArgProGluIle	60
QY	873	AATAAGATGATGTTCAACACAAAGAGTGTCTTTTTCAGCAGAACATCTCTCGGAGGCTCA	932
Db	61	AsnLysAspAspValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySer	80



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: LENGTH: 903
: TYPE: PRT
: ORGANISM: Unknown
: FEATURE:
: OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
: OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
: OTHER INFORMATION: 31026)
US-09-193-562D-46

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Alignment Scores:	
Pred. No.:	4,61e-109
Score:	1198.00
Percent Similarity:	70.0%
Best Local Similarity:	54.88%
Query Match:	39.41%
DB:	3
Length:	903
Matches:	253
Conservative:	70
Mismatches:	118
Indels:	20
Gaps:	9

US-09-049-696-19 (1-1683) x US-09-193-562D-46 (1-903)

QY	3	CAAAGTGGTCCCATCATCACACAGCTCGCTTTGGGGCCCTCTGCAGGTCTCAAGAACTAGAG	62
Db	430	GinSerGlyValIleIleHisThrValAlaLeuGlyProSerAlaAlaGlyGluLeuGlu	449
QY	63	GAGCTGTCCAAATCACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT	122
Db	450	ThrLeuSerAspMetThrGlyGlyHisArgPheTyrAlaAsnLysAspIle-----Asn	467
QY	123	GGCTCATTTGCTTTTGGGGCCCTTCATCAGCAATGAGCTGCTCTCTCAGCGCTCC	182
Db	468	GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnThr	487
QY	183	ATCCAGCTTGAGAGTAAGGGATTAAACCTCCAGAACAGCCAGTGATGAATGGCACAGTG	242
Db	488	IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTrpValAsnGlyThrVal	507
QY	243	ATCTGGGACAGCACCGTCGGAAAGACACATTGTGTTTATCCTCGGACACGACGCT	302
Db	508	ProValAspSerThrIleGlyAsnAspThrPhePheValValThrTrpThrIleLysLys	527
QY	303	CCCCAAATCTCTCTCGGATCCCGAGTGGACAG-----AAGCAAGGTGCGCTTTGAGTG	356
Db	528	ProGluIleLeuLeuGlnAspProLysGlyLysTyrLysThrSerAspPheLysGlu	547
QY	357	GACAAA---AACACAAAATGGCTTACTCTCAAATCCAGGCATTGCTAAGGTGGCACT	413
Db	548	AspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGlnThrGlyThr	567
QY	414	TGGAATAACAGTCTG-----CAAGCAAGCTCAAAACCTTGACCTGACTGTCCAG	464
Db	568	TrpThrTyrSerLeuLeuAsnHisAlaSerProGlnIleLeuThrValThrValThr	587
QY	465	TCCCGTGGCTCCAAATGCTACCTCGCTCCAAATTACAGTGACTTCCAAAACGACACAGGAC	524
Db	588	ThrArgAlaArgSerProThrThrProProValThrAlaThrAlaHisMetAsnGlnAsn	607
QY	525	ACGACGAAATTCGCCAGCCCTCTGGTAGTTTATGCAATATTCCGCAAGGACGCTCCCCA	584
Db	608	ThrAlaHisTyrProSerProValIleValTyrAlaGlnValSerGlnGlyPheLeuPro	627
QY	585	ATTCTCAGGGCCAGTGTCCAGCCCTGATTGAATCAGTGAATCGAAAAACAGTTACCTTG	644
Db	628	ValLeuGlyIleAsnValThrAlaIleIleGluThrGluAspGlyHisGlnValThrLeu	647
QY	645	GAACTACTGGATAATGAGCAGGTGCTGATGCTACTAAGGATCAGCGTCTCTACTCAAGG	704
Db	648	GluLeuTrpAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	667
QY	705	TATTTCACACTTATGACGAATGGPAGATACAGTGTAAAAGTCGGGCTCTGGGAGGA	764
Db	668	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValHisAlaGluAlaArg	687
QY	765	GTTTAACGACGCCAGCGAGGTGATACCCACAGATGGGACACTGTACATATCCTGGC	824

Db	688	AsnAsnThrAlaAargLueuSerLueuArgLnProGlnAsnLysAlaLeuTyrlleProGly	707
QY	825	TGGANTGCAATGATGAAATACAATCGAATCCACCAAGACTGGAATTAATAAGGATCAT	884
Db	708	TyrlleGluAsnGlyLyslleLleLueuAsnProProArgProGluVal---LysAspAsp	726
QY	885	GTTCAACACACGAAGTG---TGTTTCAGCAGAACATCCTCGGAGGCTCATTTGTGGCT	941
Db	727	LueuAlaLysAlaGluIleGluAspPheSerArgLueuThrSerGlyGlySerPheThrVal	746
QY	942	TCTGATGTCGCCNAATGCTCCCATCTACTGATCTCTCCACCTGGCCAAATCACGACCTG	1001
Db	747	SerGlyAlaProProGlyAsnHisProSerValLueuProProAsnLyslleThrAspLueu	766
QY	1002	AAGGCG-----GAAATTACGGGGGCGAGTCTCAATTAATCTGCATCTGGACAGCTCCT	1052
Db	767	GluAlaLysPheLysGluAspHis-----lleGlnLueuSerTrpThrAlaPro	782
QY	1053	GGGGATGATTAATGACCATGGAACAGCTCACAAAGTATATCATTTCCAAATAAGTACAAGTATT	1112
Db	783	AlaAsnValLueuAspLysGlyLysAlaAsnSerTyrllelleArglleSerLysSerPhe	802
QY	1113	CTTGATCTCACAGACAGATTCAATGAATCTCTTCCAGTGAATACTACTGCTCATCCCA	1172
Db	803	LueuAspLueuGlnLysAspPheAspAsnAlaThrLueuValAsnThrSerSerLueuLysPro	822
QY	1173	AAGGAAGCAACTCTGAGGAAGTCTTTTGTGTTTAAACACAGAAACATTACTTTGAAAT	1232
Db	823	LysGluAlaGlySerAspGluAsnPhelupHelysProGluProPheA-rglleGluAsn	842
QY	1233	GGCACAGATCTTTTCATTGCTATTTCAGGCTGTTGATAAGGTCGATCTGAAATCAGAAATA	1292
Db	843	GlyThrAsnPheTyrlleAlaValGlnAlaIleAsnGluAlaAsnLueuThrSerGluVal	862
QY	1293	TCCAACTTGCACAGATATCTTTGTTTATCTCCACAGACTCCGCGACAGACACCTAGT	1352
Db	863	SerAsnIleAlaGlnAlaIleLysPheIlePro-----MetProGluAspSerVal	879
QY	1353	CCT 1355	
Db	880	Pro 880	
RESULT 12			
US-10-055-412B-46			
; Sequence 46, Application US/10055412B			
; Patent No. 6692939			
; GENERAL INFORMATION:			
; APPLICANT: Pauli, Benedicht U.			
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium			
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules			
; FILE REFERENCE: 18617, 0058			
; CURRENT APPLICATION NUMBER: US/10/055,412B			
; CURRENT FILING DATE: 2001-10-29			
; PRIOR APPLICATION NUMBER: US/09/193,562			
; PRIOR FILING DATE: 1998-11-17			
; PRIOR APPLICATION NUMBER: US/60/065,922			
; PRIOR FILING DATE: 1997-11-17			
; NUMBER OF SEQ ID NOS: 47			
; SEQ ID NO 46			
; LENGTH: 903			
; TYPE: PRT			
; ORGANISM: Unknown			
; FEATURE:			
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal			
US-10-055-412B-46			
Alignment Scores:			
Pred. No.:		4,61e-109	Length: 903
Score:		1198.00	Matches: 253
Percent Similarity:		70.07%	Conservative: 70
Best Local Similarity:		54.88%	Mismatches: 118
Query Match:		39.41%	Indels: 20

DB: 4 Gaps: 9  
US-09-049-696-19 (1-1683) x US-10-055-412B-46 (1-903)  
QY 3 CAAGAGTGGTCCATCATCCACACAGTCCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62  
Db 430 GlnSerGlyValIleIleHleThrValAlaLeuGlyProSerAlaAlaLysLeuGlu 449  
QY 63 GAGCTGTCACAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAT 122  
Db 450 ThrLeuSerAspMetThrGlyGlyHisArgPheTyrAlaAsnLysAspIle-----Asn 467  
QY 123 GGCCTCATTGATGCTTTGGGGCCCTTTCATCAGCAAAATGAGCTGTCTCTCAGCGCTCC 182  
Db 468 GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnThr 487  
QY 183 ATCCAGCTTGAGAGTAAGGGATTACCTCCAGAACAGCCAGTGGATGAATGGACAGCTG 242  
Db 488 IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTyrValAsnGlyThrVal 507  
QY 243 ATCGTGGACAGCAGCGTGGAAAGACACTTTGTTTCTTATCCTGAGCAACGAGCCT 302  
Db 508 ProValAspSerThrIleGlyAsnAspThrPhePheValValThrTyrThrIleLysLys 527  
QY 303 CCCAAATCTCTCTGGGATCCAGTGGACAG-----AAGCAAGTGGCTTGTAGTG 356  
Db 528 ProGluIleLeuLeuGlnAspProLysGlyLysLysTyrLysThrSerAspPheLysGlu 547  
QY 357 GACAAA---AACACCAAAATGCCCTTACCTCCAAATCCAGGCAATTCCTAAGTTGGCACT 413  
Db 548 AspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGluThrGlyThr 567  
QY 414 TGGAAATACAGTCTG-----CAAGCAAGCTCACAACTGACCTGACCTGCTGACG 464  
Db 568 TrpThrTyrSerLeuLeuAsnAsnHisAlaSerProGlnIleLeuThrValThrValThr 587  
QY 465 TCCCTGGTCCAAATGCTACCTGCTCCAAATACAGTACCTCCAAACGAAACAGGAC 524  
Db 588 ThrArgAlaArgSerProThrThrProProValThrAlaThrAlaHisMetAsnGlnAsn 607  
QY 525 ACCCAAAATTCGCCAGCCCTCTGGTAGTTTATGCAAAATATTCGCCAGGAGCCCTCCCA 584  
Db 608 ThrAlaHisTyrProSerProValIleValTyrAlaGlnValSerGlnGlyPheLeuPro 627  
QY 585 ATTCTCAGGCCAGTCTCAGCCCTGATGATGATCAATGATGGAATGGAAGAAACAGTACCTG 644  
Db 628 ValLeuGlyIleAsnValThrAlaIleIleGluThrGluAspGlyHisGlnValThrLeu 647  
QY 645 GAACACTGATAATGAGCGAGTGGTCTGATGCTACTAAGGATCAGCGTCTCTACTCAAGG 704  
Db 648 GluLeuTrpAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 667  
QY 705 TATTTCACACTTATGACACAGATGTAGATAGTGTAAAGTGGCGGCTCTGGGAGGA 764  
Db 668 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValHisAlaGluAlaArg 687  
QY 765 GTTAACGCGCCAGAGAGGAGTGTATACCCACAGAGTGGAGCAGTGTACATACCTGGC 824  
Db 688 AsnAsnThrAlaArgLeuSerLeuArgGlnProGlnAsnLysAlaLeuTyrIleProGly 707  
QY 825 TGGATTGAGATGATGAATACAAATGGAATCCACCAAGACCTGAAATTAATTAAGGATGAT 884  
Db 708 TyrIleGluAsnGlyLysIleIleLeuAsnProProArgProGluVal---LysAspAsp 726  
QY 885 GTTCAACACAAAGCAAGTG---TGTTTACAGCAACATCTCGGAGGCTCATTTGGGCT 941  
Db 727 LeuAlaLysAlaGluIleGluAspPheSerArgLeuThrSerGlyGlySerPheThrVal 746  
QY 942 TCTGATGTCCTCAATGCTCCCATCAGTCTCTCCACCTGGCCAAATCACCAGCCTG 1001  
Db 747 SerGlyAlaProProGlyAsnHisProSerValLeuProProAsnLysIleThrAspLeu 766  
QY 1002 AAGGCG-----GAAATTCAGGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCT 1052

Db 767 GluAlaLysPheLysGluAspHis-----IleGlnLeuSerTrpThrAlaPro 782  
QY 1053 GGGGATGATTATGACCATGGAACAGCTCACAGTATATATTCATTCGAATAAGTACAAGTATT 1112  
Db 783 AlaAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSerPhe 802  
QY 1113 CTTGATCTCAGAGACAAAGTTCATCAATGAACTCTCTCAAGTGAATACTACTGCTCTCATCCCA 1172  
Db 803 LeuAspLeuGlnLysAspPheAspAlaThrLeuValAsnThrSerSerLeuLysPro 822  
QY 1173 AAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTTAAACCCAGAAACATTACTTTGAAAT 1232  
Db 823 LysGluAlaGlySerAspGluAsnPheGluPheLysProGluProPheArgIleGluAsn 842  
QY 1233 GGCACAGATCTTTTCATTGCTTATTCAGGCTGTTGATAGGTCGATCTCGAATCAGAAATA 1292  
Db 843 GlyThrAsnPheTyrIleAlaValGlnAlaIleAsnGluAlaAsnLeuThrSerGluVal 862  
QY 1293 TCCCAACTGTCAGCAGTATCTTTGTTTATCTCTCCACAGACTCCGCCAGACACACTAGT 1352  
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QY 1353 CCT 1355  
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; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; CURRENT FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 18  
; LENGTH: 903  
; TYPE: PRT  
; ORGANISM: Bos taurus  
US-09-623-624-18  
Alignment Scores: 4.9e-104 Length: 903  
Pred. No.:

Score: 1147.00		Matches: 242	
Percent Similarity: 68.76%		Conservative: 75	
Best Local Similarity: 52.49%		Mismatch: 124	
Query Match: 37.73%		Indels: 20	
DB: 4		Gaps: 9	
US-09-049-696-19 (1-1683) x US-09-623-624-18 (1-903)			
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Db	450	ThrLeuSerAspMetThrGlyGlyHisArgPheTyrAlaAsnLysAspIle-----Asn	467
QY	123	GGCTCATGTAGCTTTTGGGGCCCTTTCATCAGGAAATGAGCTGTCTCTCAGCGCTCC	182
Db	468	GlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIleThrGlnGlnThr	487
QY	183	ATCCAGCTTGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG	242
Db	488	IleGlnLeuGluSerLysAlaLeuAlaIleThrGluLysLysTyrPheValAsnGlyThrVal	507
QY	243	ATCGTGGACAGCACCGTGGGAAAGACACTTGTCTTATCACCTGGACAAAGCGCCT	302
Db	508	ProValAspSerThrIleGlyAsnAspThrPhePheValValThrTrpThrIleLysLys	527
QY	303	CCCCAAATCTCTCTGGGATCCAGTGGACAG-----AAGCAAGGTGGCTTTGTAGTG	356
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QY	357	GACAAA---AACACCAAAATGCGCTACCTCCAAATCCAGGATTCGTAAGCTTGGCACT	413
Db	548	AspLysLeuAsnIleHisSerAlaArgLeuArgIleProGlyIleAlaGluThrGlyThr	567
QY	414	TGGAATACAGTCTG-----CAAGCAAGCTCACAAACCTTCAGCTGACTGTACAG	464
Db	568	TrpThrTyrSerLeuLeuAsnAsnHisAlaSerProGlnIleLeuThrValThrValThr	587
QY	465	TCCGTGGTCCAAATGCTACCTGCTGCTCAATTAACAGTCACTCCAAACGACAAAGGAC	524
Db	588	ThrArgAlaArgSerProThrThrProValThrAlaThrAlaHisMetSerGlnAsn	607
QY	525	ACCAGCAAAATCCCGAGCCCTCTGCTAGTATTGCAATATTCGCAAGGACCTCCCA	584
Db	608	ThrAlaHisTyrProSerProValIleValTyrAlaGlnValSerGlnGlyPheLeuPro	627
QY	585	ATTCTCAGGGCCAGTGTCCACAGCCCTGATTGAATCAGTGAATGGAACAAAGTACTGTG	644
Db	628	ValLeuGlyIleAsnValThrAlaIleIleGluThrGluAspGlyHisGlnValThrLeu	647
QY	645	GAACACTGGATAATGAGCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG	704
Db	648	GluLeuTrpAspAsnGlyAlaGlyAlaAspThrValLysAsnAspGlyIleTyrSerArg	667
QY	705	TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTCCGGGCTCTGGAGGA	764
Db	668	TyrPheThrAspTyrArgGlyAsnGlyArgTyrSerLeuLysValHisAlaGluAlaArg	687
QY	765	GTTAACGCGACGACGAGGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGCGC	824
Db	688	AsnAsnThrAlaArgLeuSerLeuArgGlnProGlnAsnLysAlaLeuTyrIleProGly	707
QY	825	TGGATTGAGATGATGAATCAATGGAATCCACAGACCTGAAATTAATAGATGAT	884
Db	708	TyrIleGluAsnGlyLysIleIleLeuAsnProProArgProGluVal---LysAspAsp	726
QY	885	GTTCAACACAGCAAGTG---TGTTTCAGCAGACATCTCTCGGAGGCTCATTTGTGGCT	941
Db	727	LeuAlaLysAlaGluIleGluAspPheSerArgLeuThrSerGlyGlySerPheThrVal	746
QY	942	TCTGATGTCCCAATGTCTCCATACCTGATCTCTTCCACCTGGCCAAATCACCGACCTG	1001

Db	747	SerGlyAlaProGlyAsnHisProSerValLeuProProAsnLysIleIleAspLeu	766
QY	1002	AAGGCG-----GAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCT	1052
Db	767	GluAlaLysPheLysGluAspHis-----IleGlnLeuSerTrpThrAlaPro	782
QY	1053	GGGGATGATTATGACCATGGACAGCTCACAAAGTATATCATTCGAATAAGTACAACTAT	1112
Db	783	AlaAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSerPhe	802
QY	1113	CTTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCA	1172
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QY	1173	AAGGAAGCAACTCTGAGGAAGTCTTTTGTGTAAACACAGAAACACTACTTTTGAAAAAT	1232
Db	823	LysGluAlaGlySerAspGluAsnPheGluPheLysProGluProPheArgIleGluAsn	842
QY	1233	GCACAGATCTTTTCATGTCTATTCAGGCTCTTGCATAGGTCGATCTGAAATCAGAAATA	1292
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QY	1293	TCCAACTTGCACGAGTATCTTCTTTATTCTCTCCACAGACTCGGCCAGAGACACCTAGT	1352
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QY	1353	CCT 1355	
Db	880	Pro 880	
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; Sequence 18, Application US/10270595			
; Patent No. 6716603			
; GENERAL INFORMATION:			
; APPLICANT: Magainin Pharmaceuticals, Inc.			
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating			
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related			
; TITLE OF INVENTION: Disorders			
; FILE REFERENCE: 36870-5073-WO			
; CURRENT APPLICATION NUMBER: US/10/270,595			
; CURRENT FILING DATE: 2002-10-16			
; PRIOR APPLICATION NUMBER: US/09/623,624			
; PRIOR FILING DATE: 2000-09-06			
; PRIOR APPLICATION NUMBER: PCT/US99/04703			
; PRIOR FILING DATE: 1999-03-03			
; PRIOR APPLICATION NUMBER: US 08/697,360			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,471			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,471			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,472			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,473			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/702,105			
; PRIOR FILING DATE: 1996-08-23			
; Remaining Prior Application data removed - See File Wrapper or PALM.			
; NUMBER OF SEQ ID NOS: 18			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO 18			
; LENGTH: 903			
; TYPE: PRT			
; ORGANISM: Bos taurus			
US-10-270-595-18			
Alignment Scores:			

Db	747	SerGlyAlaProProGlyAsnHisProSerValLeuProProAsnLysIleIleAspLeu	766
QY	1002	AAGGCG-----GAAATTACGGGGGCGAGTCTCATTAACTGACTTGGACAGCTCCT	1052
Db	767	GluAlaLysPheLysGluAspHis-----IleGlnLeuSerTrpThrAlaPro	782
QY	1053	GGGGATGATTATGACCATGGAACAGCTCACAGTATATCATTCGAATAAGTACAAGTATT	1112
Db	783	AlaAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSerPhe	802
QY	1113	CTTGATCTTCAGAGACAAAGTTCATGAATCTCTTCAAGTGAATACTACTCTCTCATCCCA	1172
Db	803	LeuAspLeuGlnLysAspPheAspAsnAlaThrLeuValAsnThrSerSerLeuLysPro	822
QY	1173	AAGGAAGCAACTCTGAGGAGTCTTTTGTGTTTAAACACAGAAAACATTACTTTTGAAT	1232
Db	823	LysGluAlaGlySerAspGluAsnPheGluPheLysProGluProPheArgIleGluAsn	842
QY	1233	GCACAGATCTTTTCAATGCTATTTCAGGCTGTGTAAGGTCGATCTGAAATCAGAAATA	1292
Db	843	GlyThrAsnPheTyrIleAlaValGlnAlaIleAsnGluAlaAsnLeuThrSerGluVal	862
QY	1293	TCCAACTTGCAGAGTATCTTTGTTTATCTCCACAGACTCCCGCAGACACCTAGT	1352
Db	863	SerAsnIleAlaGlnAlaLysPheIlePro-----MetProGluAspSerVal	879
QY	1353	CCT 1355	
Db	880	Pro 880	
RESULT 14			
US-10-270-595-18			
; Sequence 18, Application US/10270595			
; Patent No. 6716603			
; GENERAL INFORMATION:			
; APPLICANT: Magainin Pharmaceuticals, Inc.			
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating			
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related			
; TITLE OF INVENTION: Disorders			
; FILE REFERENCE: 36870-5073-WO			
; CURRENT APPLICATION NUMBER: US/10/270,595			
; CURRENT FILING DATE: 2002-10-16			
; PRIOR APPLICATION NUMBER: US/09/623,624			
; PRIOR FILING DATE: 2000-09-06			
; PRIOR APPLICATION NUMBER: PCT/US99/04703			
; PRIOR FILING DATE: 1999-03-03			
; PRIOR APPLICATION NUMBER: US 08/697,360			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,419			
; PRIOR FILING DATE: 1996-08-23			
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; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/697,471			
; PRIOR FILING DATE: 1996-08-23			
; PRIOR APPLICATION NUMBER: US 08/702,105			
; PRIOR FILING DATE: 1996-08-23			
; Remaining Prior Application data removed - See File Wrapper or PALM.			
; NUMBER OF SEQ ID NOS: 18			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO 18			
; LENGTH: 903			
; TYPE: PRT			
; ORGANISM: Bos taurus			
US-10-270-595-18			
Alignment Scores:			

Pred. No.: 4.9e-104 Length: 903  
Score: 1147.00 Matches: 242  
Percent Similarity: 68.76% Conservative: 75  
Best Local Similarity: 52.49% Mismatches: 124  
Query Match: 37.73% Indels: 20  
DB: 9 Gaps: 4

US-09-049-696-19 (1-1683) x US-10-270-595-18 (1-903)

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QY 63 GAGCTGTCCAAATGACAGAGAGTTTACAGACATATGCTTCAGATCAAGTTCAGACAAAT 122  
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QY 414 TCGAATACAGCTG-----CAGCAAGCTCACAACTGACCCCTGCTGCTGCTGCTGCTG 464  
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QY 825 TGGATTGCAATGATGAATATACAAATGAAATCCCAAGACCTGAAATTAATATAGGATGAT 884  
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QY 1353 CCT 1355  
Db 880 Pro 880

RESULT 15  
US-09-193-562D-2  
; Sequence 2, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09193,562D  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 2  
; LENGTH: 905  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells  
US-09-193-562D-2

Alignment Scores:  
Pred. No.: 5.39e-100 Length: 905  
Score: 1106.00 Matches: 229  
Percent Similarity: 68.75% Conservative: 79  
Best Local Similarity: 51.12% Mismatches: 130  
Query Match: 36.38% Indels: 10  
DB: 3 Gaps: 6

US-09-049-696-19 (1-1683) x US-09-193-562D-2 (1-905)

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Db 451 ThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAspIle-----Thr 468

QY 123 GGCCTCATTTGAGTCTTTTGGGGCCCTTTCATCATCAGGAATGGAGCTGCTCTCAGCGCTCC 182

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QY 243 ATCGTGGACAGCACCGTGGGAAGGACACTTTGTTCTTATACCTGGGACAAACGACGCT 302
Db 509 ProValAspSerThrValGlyAsnAspThrPhePheValValThrTrpThrIleGlnLys 528
QY 303 CCCCAATCTCTCTGGGATCCAGTGGACAG-----AAGCAAGGTGGCTTTGTAGTG 356
Db 529 ProGluIleValLeuGlnAspProLysGlyLysLysThrSerAspPheLysGlu 548
QY 357 GACAAA--AACACCAAAATGCCTACCTCCAAATCCAGGATTCCTAAGTTGGCACT 413
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Db 749 GlyAlaProProProGlyAsnHisProSerValPheProProSerLysIleThrAspLeu 768
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Job time : 71.6799 secs



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GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on:   October 15, 2004, 16:09:40 ; Search time 172.598 Seconds
        (without alignments)
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Title:    us-09-049-696-19
Perfect score: 3040
Sequences: 1 AACAAAGTGGTCCATCATC.....AAATGCTAAACAACCTGGGTA 1683

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Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 1360919 seqs, 323318674 residues

Total number of hits satisfying chosen parameters: 2721838

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
                  Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

Result No.      Score Match Length DB ID      Description

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## ALIGNMENTS

## RESULT 1

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US-10-106-698-6388
; Sequence 6388, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6388
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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4	2521	82.9	914	9	US-09-833-263-1066	Sequence 1066, Ap
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9	2521	82.9	914	14	US-10-235-994-26	Sequence 26, Appli
10	2521	82.9	914	14	US-10-060-255-42	Sequence 42, Appli
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NAME/KEY: MISC FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

Alignment Scores:  
Pred. No.: 6,27e-220 Length: 869  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
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Query Match: 82.93% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-106-698-6388 (1-869)

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RESULT 2

US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US20010025098A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: EP-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PERL Program  
; SEQ ID NO 8  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775  
US-09-823-356-8

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 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
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RESULT 3  
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 ; Sequence 1066, Application US/09922217  
 ; Patent No. US20020076414A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xu, Jiangchun  
 ; APPLICANT: Iodes, Michael J.  
 ; APPLICANT: Secrist, Heather  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Meagher, Madeleine Joy  
 ; APPLICANT: Stolk, John A.  
 ; APPLICANT: Wang, Tongtong  
 ; APPLICANT: Jiang, Yuqiu  
 ; APPLICANT: Smith, Carole Lynn  
 ; APPLICANT: King, Gordon E.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Clapper, Jonathan D.  
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS  
 ; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE  
 ; FILE REFERENCE: 210121.471C13  
 ; CURRENT APPLICATION NUMBER: US/09/922.217  
 ; NUMBER OF SEQ ID NOS: 1124  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 1066  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-922-217-1066

Alignment Scores:  
 Pred. No.: 6.39e-220 Length: 914  
 Score: 2521.00 Matches: 488  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0

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Query Match: 82.93% Indels: 0
DB: 9 Gaps: 0
US-09-049-696-19 (1-1683) x US-09-922-217-1066 (1-914)

QY 3 CAAGTGGTGCATCATCCACACAGTCCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
DB 767 SerLeuIleAenLeuThrTriAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786
QY 1083 AAGTATATCATTCGATTAAGTACAAAGTATTCTTGTATCTCAGACAGCAAGTTCAATCAATCT 1142
DB 787 LysTyrIleAerGileSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY 1143 CTTCAAGTGAATATCTACTGCTCTCATCCAAAGGAAGCAACTCTCGAGGAAGTCTTTTGTG 1202
DB 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
QY 1203 TTAAACACAGAAAACATTACTCTTTGAAAATGGCAGATCTCTTTTCAATGCTTATTCAGGCT 1262
DB 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY 1263 GTTGATAAGTGCATCTGAATATCAGAAATATCCAAATTCACATTCGACGAGTATCTTTGTTATT 1322
DB 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY 1323 COTCCACAGACTCCGCCAGAGACCTAGTCTCTGATGAAACGCTCTGCTCTCTTGTCTTAAT 1382
DB 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY 1383 ATTCTATCAACAGACACCATCTCTGCGATTCACATTTTAAATATATGTGGAAGTGATA 1442
DB 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
QY 1443 GGAGAACTGCAGCTGCTCAATAGCC 1466
DB 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 4
US-09-833-263-1066
; Sequence 1066, Application US/09833263
; Patent No. US20020110547A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Stolk, John A.
; APPLICANT: Meagher, Madeleine J.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C12
; CURRENT APPLICATION NUMBER: US/09/833,263
; CURRENT FILING DATE: 2001-04-10
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-263-1066

Alignment Scores:
Pred. No.: 6,39e-220 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-833-263-1066 (1-914)

QY 3 CAAGTGGTGCATCATCCACACAGTCCCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
DB 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTCAGATCAAGTTCAAGAACT 122
DB 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsn 466
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGAGCTGCTCTCAGCGCTCC 182
DB 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGGCAGATG 242
DB 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY 243 ATCTGGGACAGCACCGTGGGAAAGGACACTTTGTTTCTTATCACCTGGGACAAACGAGCT 302
DB 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTriAlaProGlnPro 526
QY 303 CCCCAAATCCTTCTCTGGGATCCAGTGACAGACAGCAGGCTTGTCTTGTAGTGACAAA 362
DB 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546
QY 363 AACACCAAATGGCTTACCTCCAAATCCAGGACATTCGCTAAGCTTGGCACTTGGAAATAC 422
DB 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566
QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTGCTCACTGCTCACTGCTCCGTCGCTCCAAATGCT 482
DB 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586
QY 483 ACCCTGCTCCAAATACAGTACGCTTCCAAACGAAACGACACAGCAAAATCCCCAGC 542
DB 587 ThrLeuProPheIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
QY 543 CCTCTGCTAGTTATCAAAATATCCCAAGAGCTCCCAATCTCCAGGGCCAGTGC 602
DB 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626
QY 603 ACAGCCCTGATTCAGTCAATGGAATAACAGTTTACCTTGGAACTTCTGGATAATGGA 662
DB 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuAspAsnGly 646
QY 663 GCGAGTGTGATGCTACTAAGATGAGGTTGCTTCTCAAGTATTTCACAACTTATGAC 722
DB 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 ACGAATGATGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAGCAGCAGCAGCGG 782
DB 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCAGCAGAGTGGAGCCTGTCATACCTGGCTGGATGAGATGATGAA 842
DB 687 ArgValIleProGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATACATGGAATCCACCAAGCTGTAATTAATGAATGATGTTCAACACAGCAAGTGC 902
DB 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY 903 TGTTCAGCAGAAATCCTCGGAGGCTCATTTGTGCTTCTGATGTCCCAAAATGCTCCC 962
DB 727 CysPheSerArgThrSerSerGlyLysPhePheValAlaSerAspValProAsnAlaPro 746
QY 963 ATACCTGATCTTTCACCTGGCCAAATCAACGACCTGAGGGCGGAAATTCAGGGGGC 1022
DB 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
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Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486  
QY 183 ATCCAGCTTCAGAGTAAGGATTAACCCCTCCAGAACAGCCAGTGGATGAATGCCACAGTG 242  
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506  
QY 243 ATCGTGGACAGCACCCCTGGGAAGGACACTTTCTTATACCTGGGCAACGCCAGCCT 302  
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
QY 303 CCCAAATCCTCTCTGGGATCCAGTGACAGAACAGGTCCTTTGTAGTGACAAA 362  
Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546  
QY 363 AACACCAAAATGGCTACCTCCAAATCCAGGACCTTGAAGTTGGCACTGGAAATAC 422  
Db 547 AsnThrLysMetAlaTrpLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTrp 566  
QY 423 AGTCTGCAAGCAAGCTCACAAACCTTGACCTGACTGTCTACGTCCTCGCTGCCAATGCT 482  
Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 586  
QY 483 ACCCTGCTCCAAATACAGTACTTCCAAAACGAAACAGCACCCAGCAAAATCCCCAGC 542  
Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606  
QY 543 CCTCTGGTAGTTATGCAATATTCGCCAAGAGCTCCCAATCTCAGGCGCAGTGTC 602  
Db 607 ProLeuValValTrpAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626  
QY 603 ACAGCCCTGATTGAATGATGAATGAATAAAGAGTACCTTGGAACTACTGATATATGA 662  
Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646  
QY 663 GCAGTGTCTGCTACTAAGATGACGGTGCTCTCAAGTATTTCACAACTTATGAC 722  
Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTySerArgTyThrPheThrThrTyAsp 666  
QY 723 ACGAATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 782  
Db 667 ThrAsnGlyArgTySerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArg 686  
QY 783 AGAGTGATACCCAGCAGAGTGCAGCTGTACATACCTGGCTGGATTCAGATATCAAA 842  
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QY 843 ATCAATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACCAAGCAAGT 902  
Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726  
QY 903 TGTTTCAGCAGAACATCTCGGAGGCTCANTTGGCTTCTGATGTCCTCCAAATGCTCC 962  
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746  
QY 963 ATACCTGTATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGAAATTCACGGGGC 1022  
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QY 1023 AGTCTCATTAATCTGACCTGACAGCTCCTGGGATGATTATGACCATGGAACAGCTCAC 1082  
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QY 1083 AAGTATATCATTGCAATAGTACAGTATTTGATCTCAGACAGCAAGTTCATGAATCT 1142  
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QY 1143 CTTCAAGTGAATACTACTGCTCTATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGG 1202  
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QY 1203 TTTAAACCAAGAAACATTTACTTTTGAATAATGGCAGATCTTTTCAATGCTATTCAAGCT 1262

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Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866  
QY 1323 CTCCACACACTCCGCCAGACACCTAGTCTCTGTAGTAAACGTCTCTCTCTCTCTTAAT 1382  
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886  
QY 1383 ATTCATATCAACAGACACCATCTCTGCATTACATTTTAAAAATTATGTGGAGTGGATA 1442  
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906  
QY 1443 GGAGAACTCCAGCTGTCAATAGCC 1466  
Db 907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 5  
US-09-981-353-192  
; Sequence 192, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 192  
; LENGTH: 914  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1  
US-09-981-353-192

Alignment Scores:  
Pred. No.: 6,39e-220 Length: 914  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-981-353-192 (1-914)

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QY 63 GAGCTGTCCAAATACAGCAGGAGTTTACAGATATGCTTCAGATCAAGTTCAGAACAT 122  
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyThrAlaSerAspGlnValGlnAsn 466  
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGAGCTGTCTCTCAGCGTCC 182  
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QY 183 ATCCAGTTCAGAGTAAAGGATTAACCTCCAGAACCCAGTGGATGATGACAGTGG 242  
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QY 243 ATCCGTGACAGCACCCCTGGGAAAGGACACTTTGTTCTTATCCTCGAACACCGAGCT 302  
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526  
QY 303 CCCCAAAATCCTCTCTCGGATCCAGTGGACAGAGCAAGTGGCTTTGTAGTGGACAAA 362  
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QY 723 ACGAATGTAGATACAGTGTAAAGTGGCTCTGGGAGGAGTTAAACGACCCAGAGCGG 782
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QY 667 ThrAsnGlyArgTySerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
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QY 783 AGAGTGATACCCAGCAGAGTGGACACTGTACATACCTGGCTGGATTGAGAATGATGAA 842
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QY 843 ATACATGGAATCCACCAAGACCTGAAATTAAGAGATGATGTTCAACACAAAGATGT 902
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QY 903 TGTTCACGACAGATCCTCGGAGGCTCATTTGGCTTCTGATGTCCTCCAAATGCTCCC 962
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QY 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
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Db |||||||
QY 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 826
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QY 1203 TTTAAACAGAAACATTACTTTTGAATGGCACAGATCTTTTCATGCTATTACAGCT 1262
Db |||||||
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QY 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
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QY 1323 CTTCCACAGACTCCGCCAGACACACTAGTCTGATGAAAGCTGTGCTCTTCCTTAAT 1382
Db |||||||
QY 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
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QY 1383 ATTCAATCAACAGACACCAATTCCTGGCATTCACATTTTAAATAATATGTGGAAGTGATA 1442
Db |||||||
QY 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
Db |||||||
QY 1443 GGAGAATCGAGCTCTCAATAGCC 1466
Db |||||||
QY 907 GlyGluLeuGlnLeuSerIleAla 914
Db |||||||

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## RESULT 7

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US-10-025-380-1066
; Sequence 1066, Application US/10025380
; Publication No. US20020182191A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secrist, Heather

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; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Barrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C14
; CURRENT APPLICATION NUMBER: US/10/025,380
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-025-380-1066

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## Alignment Scores:

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Pred. No.: 6,39e-220 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 13 Gaps: 0

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US-09-049-696-19 (1-1683) x US-10-025-380-1066 (1-914)

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QY 3 CAAAGTGTGTCATCATCCACACAGTGCCTTTGGGGCCCTCTGCAGCTCAGAACTAGAG 62
Db |||||||
QY 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
Db |||||||
QY 63 GAGTGTGCCAAATACAGCAGAGGTTTACAGACATATGTTCCAGATCAAGTTTCAGAACAA 122
Db |||||||
QY 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyAlaSerAspGlnValGlnAsnAsn 466
Db |||||||
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGAAATGAGCTGTCTCTCAGCGCTCC 182
Db |||||||
QY 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
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QY 183 ATCCAGCTTGAGAGTAAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCACAGTG 242
Db |||||||
QY 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnIleTrpMetAsnGlyThrVal 506
Db |||||||
QY 243 ATCTGGACAGCACCCTGGGAAAGACACTTTTGTTCCTTATCAGCTGGACAAACGAGCCT 302
Db |||||||
QY 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
Db |||||||
QY 303 CCCCAATCTCTCTCGGATCCAGTGGACAGAAAGCAAGTGGCTTTGTAGTGACAAA 362
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QY 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546
Db |||||||
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Db |||||||
QY 547 AsnThrLysMetAlaTyRLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTrp 566
Db |||||||
QY 423 AGTCTGCAAGCAGCTCACAAACCTTGACCTGTGACTGTCTCAGCTCCCTGGTCCCAATGCT 482
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QY 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586
Db |||||||
QY 483 ACCCTGCTCAATTAAGTACGTTCCAAACGAAACAGGACACCAAGCAATTCGCCAGC 542
Db |||||||
QY 587 ThrLeuProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
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QY 543 CCTCTGGTAGTTATGCAATATTCGCCAAGAGCCTCCCAATTTCTCAGGCGCAGTGTG 602
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Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626
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QY 663 GCAGTGTCTGATCTACTAAGATGACCGTCTACTCAAGTATTTTCACTTATGAC 722
Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 ACGAATGTAGATACAGCTGTAAGAGTGGGGCTCTGGAGGAGTAAACGCCACGACGG 782
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArg 686
QY 783 AGAGTGATACCCACAGAGTGAGACCTGACATACCTGGCTGATGAGTGAATGATGAA 842
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QY 843 ATACAATGGAATCCACCAAGACCTCAAAATTAATAAGGATGATGTTCAACACAAGCAAGT 902
Db 707 IleGlnTyrPasnProArgProGluLeuLeuLeuLysAspValGlnHisLysGlnVal 726
QY 903 TGTTCACGACAACTCTCGGGAGGCTCAATTTGTGGCTTCTGATGTCCTCCAAATGCTCCC 962
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746
QY 963 ATACTGATCTCTCCACCTGGCCAAATACCGACCTGAAGCGGGAATTCACGGGGC 1022
Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY 1023 AGTCTCATTATCTGACATGACACCTCTGGGATGATTAATGACATGGACACCTCAC 1082
Db 767 SerLeuIleAsnLeuThrTyrThrAlaProGlyAspPheTyrAspPheGlyThrAlaHis 786
QY 1083 AAGTATATCATTGCAATAGTACAGTATTTCTTGATCTCAGAGACAAAGTTCATTAATCAATCT 1142
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY 1143 CTTCAGTGAATACTACTGCTCTCATCCAAAGGAAGCAACTGAGAGAGTCTTTTGTG 1202
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
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QY 1263 GTTGATAAGGTGATCTGAAATCAGAAATATCCAAATTCACAGTATCTTTTGTATT 1322
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY 1323 CCTCCACAGACTCCGCCAGAGACACTAGTCTGTATGAAGCTGTGCTCTGCTTCTAAT 1382
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY 1383 ATTCAATCAACAGACACCATCTCTGGCATTCACATTTTAAATAATATGTGGAAGTGATA 1442
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleLeuTyrIle 906
QY 1443 CGAGAACTGCAGTGTCTAATAGCC 1466
Db 907 GlyGluLeuGlnLeuSerIleAla 914
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## RESULT 8

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US-10-270-595-6
; Sequence 6, Application US/10270595
; Publication No. US20030078409A1
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
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; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 6,39e-220 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 14 Gaps: 0
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US-09-049-696-19 (1-1683) x US-10-270-595-6 (1-914)

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QY 3 CAAAGTGTGCCATCATCCACACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
Db 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCAAAATGACAGAGGTTTACAGACATATGTTTCAGATCAAGTTCAGAACAAAT 122
Db 447 GluLeuSerLysMetThrGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
QY 123 GGCCTCATTTGATGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTCTCTCAGCGCTCC 182
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGGCAGCTG 242
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTyrMetAsnGlyThrVal 506
QY 243 ATCTGTGACAGCACCGTGGGAAAGACACTTTGTTTCTTATCATCCTGGACACGAGCT 302
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTyrThrGlnPro 526
QY 303 CCCCAATCCTTCTCTGGGATCCAGTGCAGAGCAAGTGGCTTTGTAGTGGACAAA 362
Db 527 ProGlnIleLeuLeuTyrPasnProSerGlyGlnLysGlnGlyPheValValAspLys 546
QY 363 AACACCAAAATGGCTACTCTCAAATCCAGGCAATGTCTAAGTTGGCACTTGGAAATAC 422
Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTyrLysTyr 566
QY 423 AGTCTGCAAGCAAGCTCAAAACCTGACCTGACTGTGACGTCCCGTCCGCTCAATGCT 482
Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586
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QY 483 ACCTGCCTCCAAATTACAGTACTTCCAAAACGAACGACACCAAGCAAAATCCCGAGC 542
Db      |||
QY 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
Db      |||
QY 543 CCTCTGGTGTATTCCTCAATATTCGCCAAGAGCCTCCCAATCTCAGGCGCAGTGC 602
Db      |||
QY 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626
QY 603 ACAGCCCTGATTGAATCAGTGAATGAAACACAGTACCTTGAACCTACTGATATGGA 662
Db      |||
QY 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 646
QY 663 GCGAGTGTGATCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCAAACTTATGAC 722
Db      |||
QY 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 AGCAATGTAGTACAGTCTAAAGTGGCGGCTCTGGAGAGGTAAACCGACCGACAGCGG 782
Db      |||
QY 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCAGCAGAGTGGAGCAGTGTACATACCTGGCTGGATTGAGATGATGA 842
Db      |||
QY 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATCAATGGAATCCACCAAGACCTGAAATTAATAAGGATGATGTTCAACACAAAGCAAGTG 902
Db      |||
QY 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY 903 TGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTCCC 962
Db      |||
QY 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746
QY 963 ATACCTGTATCTCTCCCACTGGCCAAATCACCGACCTGAAGCGGCAATTCACGGGGC 1022
Db      |||
QY 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTATGACCATGGAACAGCTCAC 1082
Db      |||
QY 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786
QY 1083 AAGTATATCATTCGAATAGTACAGTATCTTGTATCTCAGAGACAAAGTTCATATCAATCT 1142
Db      |||
QY 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY 1143 CTTCAGTGAATACACTACTCTCTATCCCAAGGAGCCACTCTGAGGAGTCTTTTGTG 1202
Db      |||
QY 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
QY 1203 TTTAAACAGAAAACATTACTTTTGAATAATGSCACAGATCTTTTCAATGCTATTGAGCT 1262
Db      |||
QY 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY 1263 GTTCGTAAGGTTCGATCTGAATCAGAAATATCCAACTTGCACAGTATCTTTGTTTATT 1322
Db      |||
QY 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY 1323 CCTCCACAGACTCCGCCAGACACCTAGTCTGATGAAAGCTGTGCTCTGCTTGTCTTAAT 1382
Db      |||
QY 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY 1383 ATTCAATFCAACAGACCATCTCTGGCATTCACATTTTAAATAATTATGGAAGTGGATA 1442
Db      |||
QY 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
QY 1443 GGAGACTGCAGCTGTCAATAGCC 1466
Db      |||
QY 907 GlyGluLeuGlnLeuSerIleAla 914

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## RESULT 9

US-10-235-994-26

; Sequence 26, Application US/10235994

; Publication No. US20030101002A1

; GENERAL INFORMATION:

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; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Human
; US-10-235-994-26

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## Alignment Scores:

Pred. No.:	6,39e-220	Length:	914
Score:	2521.00	Matches:	488
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	82.93%	Indels:	0
DB:	14	Gaps:	0

US-09-049-696-19 (1-1683) x US-10-235-994-26 (1-914)

QY	3	CAAAGTGTGTCATCATCCACACAGTCCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG	62
Db	427	GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu	446
QY	63	GAGCTGTCCAAATACAGAGGAGTTTACAGACATATGCTTCAGATCAAGTTCAGAACAAAT	122
Db	447	GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn	466
QY	123	GGCTCATGTATGCTTTTGGGGCCCTTTTCATCAGAGAAATGAGCTGTCTCTCAGCGCTCC	182
Db	467	GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer	486
QY	183	ATCCAGCTGTGAGTAAGGGATTAAACCTCCAGACACCCAGTGGATGATGAATGGCACAGTG	242
Db	487	IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal	506
QY	243	ATCGTGGACAGACCGTGGGAAAGACACTTTGTTTCTTATCACCTGGACACCGCAGCT	302
Db	507	IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro	526
QY	303	CCCCAAATCCTCTCTGGATCCAGTGGACAGAGCAGAGTGGCTTTGTAGTGACAAA	362
Db	527	ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys	546
QY	363	AACACCAAAATGGCTACTCCAAATCCAGGCATTGCTAAGGTGGCAGCTGGAAATAC	422
Db	547	AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr	566
QY	423	AGTCTGCAAGCAAGCTCACAAACCTTGACCTGTACTGTACGTCCTCGCTGCCAATGCT	482
Db	567	SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla	586
QY	483	ACCTGCTCCTCAATTACAGTGACTTCCAAACGAAACGACACCAAGCAAAATTCCTCCAGC	542
Db	587	ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer	606
QY	543	CCTCTGTGTAGTTTATGCAAAATATTCGCCAAGGAGCCTCCCAATTCCTCAGGCCAGTGC	602
Db	607	ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal	626
QY	603	ACAGCCCTGATTGAATCAGTGAATGGAACAAACAGTTACCTTGGAACTACTGGATAATGGA	662
Db	627	ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly	646
QY	663	GCAGGTCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACAACTTATGAC	722

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Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 ACGAATGCTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTAAAGCAGCCAGCGG 782
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCACAGAGTGAGACCTGTACATACCTGGCTGGATTCAGATGATGAA 842
Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATACATCGAATCCACCAAGACTCGAATTAATAGAGTGTTCACACACAGCAAGTG 902
Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY 903 TGTTTTACAGACAACATCTCCGGAGGCTCATTTGTGGCTTCTGTATGTCCTCAATGCTCCC 962
Db 727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746
QY 963 ATACCTGATCTCTCCACCTGGCCAAATCAGGACCTGAAGCGGGAATTCACGGGGC 1022
Db 747 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCCTGGGGATGATTATGACCATGGAAACAGCTCAC 1082
Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786
QY 1083 AAGTATATCATTCGAATAGTACAAAGTATTTTGATCTCAGACACAAAGTTCATGAATCT 1142
Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY 1143 CTTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGG 1202
Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826
QY 1203 TTAAACCAAGAAACATTTTGAATGGACAGATCTTTTCAATGCTATTCAAGGCT 1262
Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY 1263 GTTGATAAGCTCGATCTGAATCAGAAATATCAACATTCACGAGTATCTTTGTTTATT 1322
Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY 1323 CTTCCACAGACTCCGCCAGACAGACCTAGTCTGTAGTAACAGTCTGCTCTGTCCTAAT 1382
Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY 1383 ATTTCATATCAACAGCACCATTCTCTGGCATTTCATATTTAAATTTATGTGAAGTGGATA 1442
Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
QY 1443 GGAGAACTGCAGCTGTCATAGCC 1466
Db 907 GlyGluLeuGlnLeuSerIleAla 914
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RESULT 10

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US-10-060-255-42
; Sequence 42, Application US/10060255
; Publication No. US20030113840A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 25 Human secreted proteins
; FILE REFERENCE: F2042P1
; CURRENT APPLICATION NUMBER: US/10/060,255
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 09/781,417
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: PCT/US00/22325
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: 60/149,182
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: PatentIn Ver. 2.0
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; SEQ ID NO 42
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-060-255-42

Alignment Scores:
Pred. No.: 6,39e-220 Length: 914
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
Dbs: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-060-255-42 (1-914)

QY 3 CAAAGTGTGTCATCATCCACAGTCGCTTTGGGGCCCTCTGCGAGTCAAGAACTAGAG 62
Db 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446
QY 63 GAGCTGTCCTCAAAATGACAGAGGTTTACAGACATATGCTTCAGATCAAGTTTCAGAACAT 122
Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466
QY 123 GGCTCTCATTTGCTTTGGGGCCCTTTTCATCAGGAAATGGAGTGTCTCTCAGCGCTCC 182
Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486
QY 183 ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGATGACAGTG 242
Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506
QY 243 ATCTGGGACAGCAGCCGCTGGGAAGGACACTTTGTTTCTTATCACCTGGACACGAGCCT 302
Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526
QY 303 CCCCAATCCTTCTCTGGGATCCCGAGTGGACAGAACAGAGTGGCTTTGTAGTGGACAAA 362
Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546
QY 363 AACACCAAAATGGCTTACCTCCAAATCCAGGCAATGCTTAAGTGGCACTTGGGAATAC 422
Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566
QY 423 AGTCTGACAGCAGCTCACAPACCTTACCCCTGACTGTCCAGCTCCGCTCGCTCCAATGCT 482
Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586
QY 483 ACCCTGCTCCCAATTACAGTGACTTCCAAAACGACACAGACACCAAGAAATCCCAAGC 542
Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606
QY 543 CTTCTGGTAGTTATGCCAAATATTGCCAAGAGCCCTCCCAATTTCTCAGGGCCAGTGC 602
Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626
QY 603 ACAGCCCTGATTCATCAATCAGTGAATGAAAAACAGTTTACCTTGGAACTACTCGAATAATGA 662
Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuLeuLeuLeuAspAsnGly 646
QY 663 GCAGGTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGGTATTTCACACTTATGAC 722
Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666
QY 723 ACGAATGCTAGATACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTAAAGCAGCCAGCGG 782
Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686
QY 783 AGAGTGATACCCACAGAGTGGACACTGTATACATACCTGGCTGGATTCAGATGATGAA 842
Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706
QY 843 ATACATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTG 902
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Db      707 IIEGLNTRPAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 726
QY      903 TGTITTCAGCAGAACATCTCTCGGAGGCTCATTTGTGGCTTCGATGTCCTCCAAATGCTCCC 962
Db      727 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 746
QY      963 ATACCTGATCTCTCCACCTGCGCAAAATCACCGACCTGAAGCGGAAATTCACGGGGC 1022
Db      747 IIEProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766
QY      1023 AGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTATGACCATGGAACAGCTCAC 1082
Db      767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786
QY      1083 AAGTATATCATTCGATAGTACAGTATCTTGATCTCAGACAGAGTTCAATGAATCT 1142
Db      787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806
QY      1143 CTTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGG 1202
Db      807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluValPheLeu 826
QY      1203 TTAAACGAGAAAACATTAATCTTTGAAATGCGACAGATCTTTTCATTGCTATTTCAGGCT 1262
Db      827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846
QY      1263 GTTGATAAGTCTGATCTGAAATCAGAAATATCCACATTCGACGATATCTTTGTTATT 1322
Db      847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866
QY      1323 CTCCACAGACTCCGCCAGACACACTAGTCTCTGATGAAACGCTGCTGCTCTTGTCTTAAT 1382
Db      867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886
QY      1383 ATTCAATATCAACAGACACATTCCTGGCATTCACATTTAAATATATGGAAGTGGATA 1442
Db      887 IIEHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906
QY      1443 GGAGAACTGCAGCTCTCAATAGCC 1466
Db      907 GlyGluLeuGlnLeuSerIleAla 914

RESULT 11
US-09-764-868-635
; Sequence 635, Application US/09764868
; Patent No. US2002016871A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 635
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-868-635

Alignment Scores:
Pred. No.: 6,43e-220 Length: 925
Score: 2521.00 Matches: 488
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 82.93% Indels: 0
DB: 9 Gaps: 0

US-09-049-696-19 (1-1683) x US-09-764-868-635 (1-925)
QY      3 CAAAGTGGTGCATATCCACAGTCGCTTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62

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Db      438 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnLeuGlu 457
QY      63 GAGCTGTCTCAAAATGACAGAGGTTTACAGACATATGCTTTCAGATCAAGTTTCAGAACAAAT 122
Db      458 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 477
QY      123 GGCCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGAGCTCTCTCTCAGCGCTCC 182
Db      478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497
QY      183 ATCCAGCTTGACAGTAAGGATTAACTCCAGACAGACAGCTGAGTGAATGGCACAGTG 242
Db      498 IIEGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517
QY      243 ATCTGGGACAGCACCGTGGAAAGGACACTTTTGTCTTATCACCTGGGACAAACGACGCT 302
Db      518 IIEValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrThrGlnPro 537
QY      303 CCCAAATCCTTCTCTGGGATCCCAAGTGGACAGAGCAAGGTGGTGTGTAGTGACAAA 362
Db      538 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheValValAspLys 557
QY      363 AACACCAAAATGCGCTACTCTCCAAATCCAGGATTCCTTAAGTTGGACATTTGGAAATAC 422
Db      558 AsnThrLysMetAlaIleLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 577
QY      423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCCCTCCGCTCCGCTCCCAATGCT 482
Db      578 SerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla 597
QY      483 ACCCTGCTCTCAATTTACAGTGTCTTCCAAACGAAACAGGACACAGCAAAATTCCTCCAGC 542
Db      598 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 617
QY      543 CTTCTGGTAGTTTATGCAAAATATTGCGCAAGGAGCTCCCAATCTCCCAATCTCAGGCCAGTGC 602
Db      618 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 637
QY      603 ACAGCCTGATTGAATCAGTGAATGGAAAAACAGTTACTTTGGAACTACTGATATATCGA 662
Db      638 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 657
QY      663 GCAGTGTCTGATGCTATTAAGATGACGCTCTACTCAAGGTATTTTTCACAACTTATGAC 722
Db      658 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 677
QY      723 ACGAATGTTAGATACAGTGTAAAGTCGGGCTCTGGGAGGAGTTAAGCGACCCAGCGG 782
Db      678 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 697
QY      783 AGAGTGATACCCCGACAGAGTGGAGCACTGTACATACCTGCTGGATGAGAATGATCAA 842
Db      698 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTyrIleGluAsnAspGlu 717
QY      843 ATACAATGGAAATCCACCAAGACCTGAAATTAATTAAGGATGATTTCAACACAAAGTGT 902
Db      718 IIEGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 737
QY      903 TGTITTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCCAAATGCTCCC 962
Db      738 CysPheSerArgThrSerSerGlyGlySerPheValAlaSerAspValProAsnAlaPro 757
QY      963 ATACCTGATCTCTTCCCACTGGCCAAATCACCCAGCTGAAGCGGAAATTCACGGGGC 1022
Db      758 IIEProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 777
QY      1023 AGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACAGCTCAC 1082
Db      778 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 797
QY      1083 AAGTATATCATTCGATAGTACAGTATTTTGTGATCTCAGACAAAGTTCAATGAATCT 1142

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Db 798 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 817  
QY 1143 CTTCAAGTGAATACACTCTCTCATCCCAAGGAAGCCAACTCTGAGGAAGTCTTTTGTG 1202  
Db 818 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 837  
QY 1203 TTTAAACAGAGAAACATTTACTTTTGAATAATGGCAGAGATCTTTTCATTGCTATTTCAGGCT 1262  
Db 838 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 857  
QY 1263 GTTGATAAGTGCATCTCAAAATCAGAAATATATCAAAATTCAGCAGAGATCTTTTGTATT 1322  
Db 858 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 877  
QY 1323 CTTCCACAGACTCCGCCAGAGACACTAGTCTCTGATGAACCTCTGCTCTTGTCTTAAT 1382  
Db 878 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 897  
QY 1393 ATTCATATCAACAGCAGCACCATTCTCGCATTCACATTTTAAATAATTATGTGAAGTGGATA 1442  
Db 898 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 917  
QY 1443 GGAGAACTGCAGCTGCTCAATAGCC 1466  
Db 918 GlyGluLeuGlnLeuSerIleAla 925

RESULT 12  
US-10-106-698-6248  
; Sequence 6248, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10/106,698  
; CURRENT FILING DATE: 2002-03-27  
; PRIOR APPLICATION NUMBER: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: Patent in Ver. 3.0  
; SEQ ID NO 6248  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-106-698-6248

Alignment Scores:  
Pred. No.: 6,43e-220 Length: 925  
Score: 2521.00 Matches: 488  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 82.93% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-106-698-6248 (1-925)

QY 3 CAAAGTGGTCCCATCATCCACAGTCGCTTTGGGCCCTCTCGAGTCAAGAACTAGAG 62  
Db 438 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 457  
QY 63 GAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCTTTCAGATCAAGTTCAGAAAT 122  
Db 458 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 477  
QY 123 GGCTCATTCATGCTTTTGGGCCCTTTTCATCAGGAATGAGCTGCTCTCAGCGCTCC 182  
Db 478 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 497  
QY 183 ATCCAGCTTGAGAGTAAGGATTAAACCTCCAGAACAGCCAGTGGATGAATGACACAGTG 242

Db 498 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 517  
QY 243 ATCTGGAGACAGACCGTGGGAAAGACACACTTTGTTTCTTATCACCCTGACCAACGAGCT 302  
Db 518 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 537  
QY 303 CCCCAAAATCCCTCTCTGGGATCCCAAGTGCAGAGCAAGGTTGGCTTTGTAGTGACAAAA 362  
Db 538 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 557  
QY 363 AACCAAAATGGCCCTACTCTCAAAATCCAGGCATTTGTAAGTTGGCACTTGGAAATAC 422  
Db 558 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 577  
QY 423 AGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACGTCCCGTCCGCTCAATGCT 482  
Db 578 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 597  
QY 483 ACCCTGCTCCAAATTTACAGTGAATTTCCAAAACGAAACAGGACACAGCAAAATTTCCCCAGC 542  
Db 598 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 617  
QY 543 CCTCTGGTAGTTTATCCAAATATTCGCAAGAGCTCCCAATTTCTCAAGGCTCGCTGTC 602  
Db 618 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 637  
QY 603 ACAGCCCTGATTAATCAGTGAATGGAAGAAACAGTACTCTTGGAACTACTGTAATGGA 662  
Db 638 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly 657  
QY 663 CGAGTGTGTGCTACTAAGCATCAGCGTGTCTACTCAAGGTATTTTCAAACTTATGAC 722  
Db 658 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 677  
QY 723 ACGAATGTGTAGTACAGTGTAAAAGTGGCGGCTCTGGAGGAGTAAACGACGACGACGG 782  
Db 678 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 697  
QY 783 AGAGTGAATACCCAGCAGAGTGGAGCTGTACATACCTGGCTGGATTCAGATGATGAA 842  
Db 698 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 717  
QY 843 ATACAATGGAATCCCAAGACCTGAAATTAATAAGGATGATGTTCAACACACAGCAAGTG 902  
Db 718 IleGlnTrpAsnProProArgProGluIleAsnLysAspValGlnHisLysGlnVal 737  
QY 903 TGTTCAGCAGAACATCTCTGGGAGGCTCATTTGTGGCTTCTGATGTCCTCAAAATGCTCCC 962  
Db 738 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 757  
QY 963 ATACCTGATCTCTCCACCTGGCCAAATCACCAGCTGAAGCGGAAATTCACGGGGC 1022  
Db 758 IleProAspLeuPheProGlyGlnIleThrAspLeuLysAlaGluLeuHisGlyGly 777  
QY 1023 AGTCTCATTAATCTGACTTGGCAGCTCCTGGGAGTATTATGACCATGGAACAGCTCAC 1082  
Db 778 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 797  
QY 1083 AAGTATATCATTCGAATAAGTACAAGTATCTTTGATCTCTCAGACACAAAGTTCATGATCT 1142  
Db 798 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 817  
QY 1143 CTTCAAGTGAATACACTCTCTCATCCCAAGGAAGCCAACTCTCAGGAAGTCTTTTGTG 1202  
Db 818 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 837  
QY 1203 TTTAAACAGGAAACATTTACTTTTGAATAATGGCAGAGATCTTTTCAATGCTATTACGCT 1262  
Db 838 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 857  
QY 1263 GTTGATAAGTGCATCTGAAATCAGAAATATCCAAATTCACAGTATCTTTGTTTATT 1322

Db 858 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 877

QY 1323 CTTCCACAGACCCGACAGACACTAGTCTGATGAACGCTCTCTCTGCTCTAAT 1382

Db 878 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 897

QY 1383 ATTATATCAACAGCACCACTTCTGCAATTCACATTTTAAATAATATGTGGAAGTGGATA 1442

Db 898 IleHisIleAsnSerThrIleProGlyIleHisIleLeuValIleMetTrpLysThrIle 917

QY 1443 GGAGAACTGACGTGTCAATAGCC 1466

Db 918 GlyGluLeuGlnLeuSerIleAla 925

RESULT 13

US-10-055-412B-28

; Sequence 28, Application US/10055412B

; Publication NO. US20030059861A1

; GENERAL INFORMATION:

; APPLICANT: Pauli, Benedicht U.

; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium

; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules

; FILE REFERENCE: 18617.0058

; CURRENT APPLICATION NUMBER: US/10/055,412B

; CURRENT FILING DATE: 2001-10-29

; PRIOR APPLICATION NUMBER: US/09/193,562

; PRIOR FILING DATE: 1998-11-17

; PRIOR APPLICATION NUMBER: US/60/065,922

; PRIOR FILING DATE: 1997-11-17

; NUMBER OF SEQ ID NOS: 47

; SEQ ID NO 28

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-055-412B-28

Alignment Scores:

Pred. No.: 1,2e-219 Length: 914

Score: 2518.00 Matches: 487

Percent Similarity: 100.00% Conservative: 1

Best Local Similarity: 99.80% Mismatches: 0

Query Match: 82.83% Indels: 0

DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-055-412B-28 (1-914)

QY 3 CAAGTGTGTCATCATCCACAGACGCTGCTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62

Db 427 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 446

QY 63 GAGCTGTCCAAATGACAGGAGTTTACAGACATATGCTTCCAGAAATGAGCTCTCTCAGCGCTCC 182

Db 447 GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn 466

QY 123 GGCCTCATATGCTTTTGGGGCCCTTTTCATCAGAAATGAGCTGTCTCTCAGCGCTCC 182

Db 467 GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer 486

QY 183 ATCCAGCTTGAGTAAGGATTAACCTCCAGAACCCAGTGGATGAATGGACAGATG 242

Db 487 IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal 506

QY 243 ATCTGGACAGCACCGTGGGAAAGGACACTTGTCTTATCACTGGACAGACGAGCT 302

Db 507 IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro 526

QY 303 CCCCAATCTCTCTGAGTCCAGTGGACAGAGCAAGGTGGCTTTGTAGTGGACAAA 362

Db 527 ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyPheValValAspLys 546

QY 363 AACACCAAAATGGCTACCTCCAAATCCAGGCAATTCAGTGGACCTTGGAAATAC 422

Db 547 AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr 566

QY 423 AGTCTGCAAGCAAGCTCACAACCTGTGACCCCTGACTGTACGTCCTCGTCCGTCCTAATGCT 482

Db 567 SerLeuGlnAlaSerSerGlnThrLeuThrValThrSerArgAlaSerAsnAla 586

QY 483 ACCCTGCTCCCAATTTACAGTGACTTCCAAAACGAAACGACACACGACCAATTTCCCAAGC 542

Db 587 ThrLeuProProIleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer 606

QY 543 CTTCTGGTAGTTTATGCCAAATATTCGCCAAGGAGCTCCCAATTCCTCAGGGCCAGTGT 602

Db 607 ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal 626

QY 603 ACAGCCCTGATTGAATCAGTGAATGGAATAACAGTTACTCGAACTACTCGATATATGGA 662

Db 627 ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGlnLeuLeuAspAsnGly 646

QY 663 GCAGGTGCTGATGCTACTAAGGATGACGCTGTCTACTCAAGTATTTCACACTTATGAC 722

Db 647 AlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAsp 666

QY 723 ACGAATGCTAGATACAGTGTAAAGTGGGGCTCTGGGAGGAGTTAAACGACGCCAGACGG 782

Db 667 ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg 686

QY 783 AGAGTGATACCCACAGACAGTGGAGCAGTGTATACCTGCTGGCTGAGTGGATGATGAA 842

Db 687 ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTrpIleGluAsnAspGlu 706

QY 843 ATACAATGGAATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACACAGCAAGTG 902

Db 707 IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValGlnHisLysGlnVal 726

QY 903 TGTTCACAGAAACATCTCGGAGGCTCATTTGTGGCTTCTGTGTCCTCCAAATCTCTCC 962

Db 727 CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro 746

QY 963 ATACTGTATCTCTCCACCTGGGCAATCAACGACCTGAAAGCGGAAATTCACGGGGGC 1022

Db 747 IleProAspLeuPheProProGlyGlnIleThrAspLeuLysAlaGluIleHisGlyGly 766

QY 1023 AGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTTATGACCATGGACACCTCAC 1082

Db 767 SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis 786

QY 1083 AAGTATATCATTCGAATAAGTACAAATCTCTGATCTCAGAGACAACTTCAATGAATCT 1142

Db 787 LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer 806

QY 1143 CTTCAAGTGAATACTACTGCTCTCATCCAAAGGAAGCCAACTCTGAGGAAGTCTTTTGT 1202

Db 807 LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu 826

QY 1203 TTTAAACAGAAAACATTTACTTTTGAATGGACAGATCTTTTCATGCTTATTCAGCT 1262

Db 827 PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla 846

QY 1263 GTTGATAGGTTCGATCTCGAAATCAGAAATATCCAACTTGCACAGTATCTTTGTATT 1322

Db 847 ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle 866

QY 1323 CTTCCACAGACTCCGCCAGACACCTAGTCTCGATGAAACGCTGCTGCTCTGCTTAAT 1382

Db 867 ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn 886

QY 1383 ATTCATATCAACAGCACCATCTCTGCAATTCACATTTTAAATATATGTGGAAGTGGATA 1442

Db 887 IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle 906

QY 1443 GGAGAACTGACGCTGTCAATAGCC 1466

Db 907 GlyGluLeuGlnLeuSerIleAla 914



## RESULT 14

US-10-369-214-133  
 ; Sequence 133, Application US/10369214  
 ; Publication No. US20030232037A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Groot, Pieter C.  
 ; APPLICANT: Berghenengouwen van, Bram J.  
 ; APPLICANT: Oosterhout van, Antoon J.M.  
 ; TITLE OF INVENTION: Genes involved in immune related responses observed  
 ; FILE OF INVENTION: with asthma  
 ; FILE REFERENCE: P53837US00  
 ; CURRENT APPLICATION NUMBER: US/10/369,214  
 ; CURRENT FILING DATE: 2003-02-15  
 ; PRIOR APPLICATION NUMBER: EP 00202867.8  
 ; PRIOR FILING DATE: 2000-08-16  
 ; PRIOR APPLICATION NUMBER: PCT/NL01/00610  
 ; PRIOR FILING DATE: 2001-08-16  
 ; NUMBER OF SEQ ID NOS: 139  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 133  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: SITE  
 ; LOCATION: (1)..(914)  
 ; OTHER INFORMATION: /note="Human CLC1"  
 US-10-369-214-133

## Alignment Scores:

Pred. No.: 1-82e-219 Length: 914  
 Score: 2516.00 Matches: 487  
 Percent Similarity: 99.80% Conservative: 0  
 Best Local Similarity: 99.80% Mismatches: 1  
 Query Match: 82.76% Indels: 0  
 DB: 14 Gaps: 0

US-09-049-696-19 (1-1683) x US-10-369-214-133 (1-914)

QY	3	CAAAGTGGTCCATCATCCACACAGTCGCTTTGGGCGCTCTGAGCTCAAGACATGAG	62
Db	427	GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu	446
QY	63	GAGCTGTCCAAATGACAGAGGTTTACAGACATATGCTTCAGATCAGCTTCAGACAAAT	122
Db	447	GluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSerAspGlnValGlnAsnAsn	466
QY	123	GGCTCATTTGATGCTTTTGGGCGCTTTCATCAGGAAATGGAGCTGCTCTCAGCGCTCC	182
Db	467	GlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGlyAlaValSerGlnArgSer	486
QY	183	ATCCAGCTTGAGAGTAAGGATTAACCTCCAGAACAGCCAGTGGATGAATGCCACAGTG	242
Db	487	IleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGlnTrpMetAsnGlyThrVal	506
QY	243	ATCGTGCACAGCCGCGGAAGGACATTTGTTTCTTATCACCTGGACACGACGCT	302
Db	507	IleValAspSerThrValGlyLysAspThrLeuPheLeuIleThrTrpThrGlnPro	526
QY	303	CCCCAAATCCTTCTCGGATCCAGTGGACAGAACAGGCTGGCTTGTAGTGGACAAA	362
Db	527	ProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGlyGlyPheValValAspLys	546
QY	363	AACACAAATGCCCTACCTCCAAATCCCGGATGCTTGAAGTGGCATTGGAATATC	422
Db	547	AsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTyr	566
QY	423	AGTCTCAGCAGCTCACAACCTTGACCTGACCTGTCACGTCCTGGTGGTCCAATGCT	482
Db	567	SerLeuGlnAlaSerGlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAla	586
QY	483	ACCTGCTCCTCAATTCAGTACTTCCAAACGAAACAGGACACCGACCAATTTCCCGAGC	542

Db	587	ThrLeuProProlleThrValThrSerLysThrAsnLysAspThrSerLysPheProSer	606
QY	543	CCTCTGCTAGTTTATGCAAAATATTCGCCAAGAGCGCTCCCAATTTCTCAGGCGCAGTGC	602
Db	607	ProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerProIleLeuArgAlaSerVal	626
QY	603	ACAGCCCTGATTGAATCAGTCAATGGAACACAGTTACTTTGGAACTACTGGATAATGGA	662
Db	627	ThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeuGluLeuLeuAspAsnGly	646
QY	663	CGAGTGTCTGATCTACTAAGATCACCGGTGTCTACTCAAGTATTTCACTTATGATGAC	722
Db	647	AlaGlyAlaAspAlaThrLysAspGlyValTyrSerArgTyrPheThrThrTyrAsp	666
QY	723	ACGAATGTAGATACAGTGTAAAGTGGCGCTCTGGAGGAGTAAACGACGACGACGAG	782
Db	667	ThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGlyValAsnAlaAlaArgArg	686
QY	783	AGAGTGATACCCAGCAGAGTGGAGCTGTACATACCTGGCTGGATTGAGAAATGATGAA	842
Db	687	ArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGlyTyrIleGluAsnAspGlu	706
QY	843	ATACAATGGAATCCCAAGACCTGAAATTAATAGGATGATGTTCAACACACAGCAGTGT	902
Db	707	IleGlnTrpAsnProProArgProGluIleAsnLysAspAspValGlnHisLysGlnVal	726
QY	903	TGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCTGATGTCTCCAAATGCTCC	962
Db	727	CysPheSerArgThrSerSerGlySerPheValAlaSerAspValProAsnAlaPro	746
QY	963	ATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAAGCGGAAATTCACGGGGC	1022
Db	747	IleProAspLeuPheProGlyGlnIleThrAspLeuAsnAlaGluIleHisGlyGly	766
QY	1023	ACTCTCAATTAATCTGACTGGACAGCTCTCGGGATGATGATGACCATGACGACGCTCAC	1082
Db	767	SerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyrAspHisGlyThrAlaHis	786
QY	1083	AGTATATCATTCGAATAGTACAAGTATTTCTTGATCTCAGAGACAAAGTTCAATGATCT	1142
Db	787	LysTyrIleIleArgIleSerThrSerIleLeuAspLeuArgAspLysPheAsnGluSer	806
QY	1143	CTTCAAGTGAATPACTACTCTCTCATCCCAAGGAGGCAACTCTGAGGAAGTCTTTTGG	1202
Db	807	LeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsnSerGluGluValPheLeu	826
QY	1203	TTTAAACAGAAACATTAATCTTTGAAATGGCAGATCTTTTCAATGCTATCAGGCT	1262
Db	827	PheLysProGluAsnIleThrPheGluAsnGlyThrAspLeuPheIleAlaIleGlnAla	846
QY	1263	GTTGATAAGTCTGATCGAATCAGAAATATCCACATTCGACAGTATCTTTGTTTATT	1322
Db	847	ValAspLysValAspLeuLysSerGluIleSerAsnIleAlaArgValSerLeuPheIle	866
QY	1323	CCTCCACAGACTCCGCGCAGACACCTAGTCTCTGATGAAACGCTCTCTCTTGTCTAAT	1382
Db	867	ProProGlnThrProProGluThrProSerProAspGluThrSerAlaProCysProAsn	886
QY	1383	ATTCAATCAACAGACACCTTCTGTCATTCACATTTTAAATATGTTGGAAGTGGATA	1442
Db	887	IleHisIleAsnSerThrIleProGlyIleHisIleLeuLysIleMetTrpLysTrpIle	906
QY	1443	GGAGAACTCAGCTGTCAATAGCC	1466
Db	907	GlyGluLeuGlnLeuSerIleAla	914

## RESULT 15

US-10-106-698-4628  
 ; Sequence 4628, Application US/10106698  
 ; Publication No. US20030109690A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ruben et al.  
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides

```

; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO: 4628
; LENGTH: 552
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-4628

Alignment Scores:
Pred. No.: 1,83e-219 Length: 552
Score: 2515.00 Matches: 487
Percent Similarity: 99.80% Conservative: 0
Best Local Similarity: 99.80% Mismatches: 1
Query Match: 82.73% Indels: 0
DB: 14 Gaps: 0

US-09-049-696-19 (1-1693) x US-10-106-698-4628 (1-552)

QY 3 CAAAGTGGTGCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCTCAAGAACTAGAG 62
Db 65 GlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGlu 84
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GenCore version 5.1.6  
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# SUMMARIES

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4	4753	88.3	914	4	US-10-055-412B-30
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23	1996	37.1	943	4	US-09-480-884A-161	Sequence 161, App
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## ALIGNMENTS

### RESULT 1

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; Sequence 6, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,105  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,110  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/702,168  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/980,872  
; PRIOR FILING DATE: 1997-12-01

; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: Patent In Ver. 2.0  
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 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
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; Sequence 6, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; PRIOR FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
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; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-270-595-6

Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4754.00 Matches: 913
Percent Similarity: 99.89% Conservative: 0
Best Local Similarity: 99.89% Mismatches: 1
Query Match: 88.36% Indels: 0
DB: 4 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-270-595-6 (1-914)
QY 25 ATGGGGCCATTAAAGAGTTCTCTGTTTCATCTTGATCTTACCTTCTAGAAGGGCCCTG 84
Db |||||||
QY 1 MetGlyProPheLysSerValPheIleLeuIleLeuLeuGluGlyAlaLeu 20
Db |||||||
QY 85 AGTAATTCATCTCATTCAGCTGAACAACTGGCTATGAAGGATTCCTGCTTCAATCGAC 144
Db |||||||
QY 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
Db |||||||
QY 145 CCATATGTCAGAGATGAACACTCAATCAACAAATAAGGACATGCTGACCCAGGCA 204
Db |||||||
QY 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
Db |||||||
QY 205 TCTCTGTATCTCTTGAACCTACAGAAAGCCATTTTATTTCAAAAATGTTGCCATTTG 264
Db |||||||
QY 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
Db |||||||
QY 265 ATTCCTGAACATGAAGACAAAGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
Db |||||||
QY 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuThrTyrLys 100
Db |||||||
QY 325 AATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGGTAATGATGAAACCTTACACTGAG 384
Db |||||||
QY 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
Db |||||||
QY 385 CAGATGGGCAACTGTGGAGAGAGGCTGAAGAGTCCACCTCCTCCTGATTTCATTCGA 444
Db |||||||
QY 121 GlnMetGlyAsnCysGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 140
Db |||||||
QY 445 GGAAAAAGATTAGCTGAATATGAGCCACCAAGCTAGGGCATTTGTCATGAGTGGGCTCAT 504
Db |||||||
QY 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160
Db |||||||
QY 505 CTACATGGGGAGTATTGACGAGTACAATAATGATGAGAAATCTACTTATTCGAATGGA 564
Db |||||||
QY 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
Db |||||||
QY 565 AGAATACAGCAGTAAGATGTTACGAGGATTTACTGCTCAAAATGATGATGAAAGTGT 624
Db |||||||
QY 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200
Db |||||||
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QY	625	CAGGAGGCGAGCTGTTTACACCAAAAGATGACCAATTAAGTAAACAGGACTCTATGAA	584	QY	1705	GTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTGACCCCTGACTGCAG	1764
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLys***ThrGlyLeuYrGlu	220	Db	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr	580
QY	685	AAAGATGTGAGTTGTCTTCAATCCCGCAGACGGAGAGCTCTATATATGTTTGA	744	QY	1765	TCCCTGGCTCAATGCTACCTGCTCAATTAAGTACTTCCAAACGACAGGAC	1824
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240	Db	581	SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp	600
QY	745	CAACATGTTGATTCTATAGTCTGAATCTGTACAGAAACAAACCAACAAAGACTCCA	804	QY	1825	ACCAGCAAAATCCCGCAGCCTCTGTAGTTATGAAATATTCGCAAGAGAGCTCCCA	1884
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260	Db	601	ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro	620
QY	805	AAACAACAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTATCCGTATCTGAG	864	QY	1885	ATTCTCAGCGCCAGTGTCTACAGCCCTGATTGAATCAGTGAATGGAAAAACAGTTACTT	1944
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280	Db	621	IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu	640
QY	865	GACTTTAAGAAACCACTCTATGACACACAGCCCAACCTCTCTCATTTGCTG	924	QY	1945	GAACACTCTGGATAATGGAGCAGTGTCTGATCTACTTAAGATGACGGTCTCTACTCAAG	2004
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300	Db	641	GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg	660
QY	925	CAGATTGGCAAAAGAAATGTGTCTTGTAGTCTTGACAAATCTGGAAAGCATGGCGACTGGT	984	QY	2005	TATTTTCCACAACTTATGACACGAAATGGTAGATACAGTGTAAAGTGGGGCTCTGGAGGA	2064
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320	Db	661	TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly	680
QY	985	AACCGCCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGCTGCGAGCAGTTGAGCTG	1044	QY	2065	GTTAACGCGCCAGACGAGAGTGTATACCCACAGACAGAGTGGAGCCTGTATACACTGGC	2124
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340	Db	681	ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly	700
QY	1045	GGTCTCTGGTTGGGATGGTACATTTGACAGTGTGCCCATGTGTACAAAGTGAATCATA	1104	QY	2125	TGGAATTGAGAAATGATGAATACAAATGAAATCCACCAAGACCTGAAATTAATAGGATGAT	2184
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360	Db	701	TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp	720
QY	1105	CAGATAAAGTGGCAGTGAAGGACACACTCGCCAAAGATTTACCTGCGAGCAGCTTCA	1164	QY	2185	GTTCAACACAAAGCAAGTGTGTTTTCAGCAGAAACATCTCTGGGAGGCTCATTTGGCTTCT	2244
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAlaSer	380	Db	721	ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer	740
QY	1165	GGAGGAGCTCCATCTGACGGGCTTCGATCGGCATTTACTGTGATTAGAGAATAT	1224	QY	2245	GATGTCCTCAAAATCTCCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG	2304
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400	Db	741	AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys	760
QY	1225	CCAACTGATGATCAAAATGTGCTCTGACGATGGGAAGACACACTATTAAGTGGG	1284	QY	2305	GGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTGGGATGATTAT	2364
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420	Db	761	AlaGluIleHisGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspIyr	780
QY	1285	TGCTTTAACAGAGTCAAAACAAAGTGTGCCATCATCCACAGTCGCTTTGGGCGCTCT	1344	QY	2365	GACCATGGAACAGCTCAACAGTATATCATTCGAATAGTAAAGTAACTTCTTGATCTCAGA	2424
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer	440	Db	781	AspHisGlyThrAlaHisLysTyrIleArgIleSerThrSerIleLeuAspLeuArg	800
QY	1345	GCAGCTCAAGAACTAGAGGAGCTGTCCAAATGTACAGAGTTTACAGACATATGCTTCA	1404	QY	2425	GACAAGTTCAATGAATCTTCAAGTGAATACTACTCTCTCTATCCCAAGAGAACAC	2484
Db	441	AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460	Db	801	AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn	820
QY	1405	GATCAAGTTCAGAAATGGCTCATTTGCTTTTGGGGCTTTTCATCAGGAAATGGA	1464	QY	2485	TCTCAGGAAGTCTTTTGTAAACCAAGAAACATTAATTTTGAATATGGCAGAGATCTT	2544
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480	Db	821	SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu	840
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGTGTGAGTGAAGGATTAAACCTCCAGAACGCGAG	1524	QY	2545	TTCAATCTCTATTCAGGCTGTGTGAAGCTCGATCTGAAATCAGAAATATCCAACTTGA	2604
Db	481	AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln	500	Db	841	PhelIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla	860
QY	1525	TGGATGAATGGCACAGTATCGTGGACAGACCGTGGGAAGGACACTTCTTCTTATC	1584	QY	2605	CGAGTATCTTTGTTTATTCTCCACAGACTCCCGCAGAGACACTAGTCTCTGATGAACG	2664
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520	Db	861	ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr	880
QY	1585	ACCTGGACAACGACGCTCCCAAAATCTCTCTGGGATCCAGTGGAGAGCAAGAGT	1644	QY	2665	TCTGCTCTTGTCTTAATATATCATATCAACAGACCACTCTCTGGCATTTCACATTTTAAA	2724
Db	521	ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540	Db	881	SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys	900
QY	1645	GGCTTTGTAGTGGACAAACCAAAATGGCTTACCTCCAAATCCCGAGGATTCCTAAG	1704	QY	2725	ATTATGTGGAAGTGAATAGGAGAACTGCAGCTGTCAATAGCC	2766
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560	Db	901	IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla	914



US-09-193-562D-28  
 ; Sequence 28, Application US/09193562D  
 ; Patent No. 6309857  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0052  
 ; CURRENT APPLICATION NUMBER: US/09/193,562D  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 28  
 ; LENGTH: 914  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-193-562D-28

Alignment Scores:  
 Pred. No.: 0 Length: 914  
 Score: 4753.00 Matches: 912  
 Percent Similarity: 100.00% Conservative: 2  
 Best Local Similarity: 99.78% Mismatches: 0  
 Query Match: 88.35% Indels: 0  
 DB: 3 Gaps: 0

US-09-049-696-20 (1-2983) x US-09-193-562D-28 (1-914)

QY	25	ATGGGGCCATTAAAGATTCTGTGTCTGTCATCTTCACTTCTAGAGGGGCCCTG	84
Db	1	MetGlyProPheLysSerValPheLeuLeuLeuHisLeuLeuGluGlyAlaLeu	20
QY	85	AGTAATTCATCTCAATCAGCTGACACAACTGCTATGAAGGCAATGTCTTGAATCGAC	144
Db	21	SerAsnSerLeuLeuGlnLeuAsnAsnGlyTyrGluGlyLeuValAlaLeuAsp	40
QY	145	CCCAATGTGCCAGAGATGAACACCTCATTTCAACAAATAAAGGACATGTGACCCAGGCA	204
Db	41	ProAsnValProGluAspGluThrLeuLeuGlnLeuLeuLysAspMetValThrGlnAla	60
QY	205	TCTCTGTATCTCTTGAAGCTACAGAAAGCGATTTTATTTCAAAATGTTGCCATTTTG	264
Db	61	SerLeuTyrLeuPheGluAlaThrGlyLysAspGlyPheTyrPheLysAsnValAlaLeu	80
QY	265	ATTCCTGAACATGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA	324
Db	81	IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys	100
QY	325	AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG	384
Db	101	AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu	120
QY	385	CAGATGGGCAACTGTGGAGAGAGGGTGAAGGATCCACCTCACTCCTGATTTCAATGCA	444
Db	121	GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla	140
QY	445	GGAAAAAGTTAGCTGAATATGGACCAAGTAGGCAATTTGTCCATGAGTGGCTCAT	504
Db	141	GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis	160
QY	505	CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATCTTACTTATCCAAATGA	564
Db	161	LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly	180
QY	565	AGAATCAACAGCAGTAAAGTTTCAGCAGGTATTTACTGGTACAAATGTAGTAAAGAGTGT	624
Db	181	ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys	200
QY	625	CAGGAGGCAGCTGTTACACAAAAGATGCACATTCATTAAGTAAAGGACTCTATGAA	684
Db	201	GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu	220

QY	685	AAAGGATGTGAGCTTGTCTTCCAAATCCCGCCACAGCGAGAGGCTTCTATATGTTGCA	744
Db	221	LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla	240
QY	745	CAACATGTTGATTCTATAGTTGAATCTCTACAGAAACAAACACCAACAAAGAGTCCA	804
Db	241	GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro	260
QY	805	AACAAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGCCTGATCTTGAG	864
Db	261	AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu	280
QY	865	GACTTTAAGAAACCACTCTATGACACACAGCCACCAAAATCCACCTTCTCATGCTG	924
Db	281	AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu	300
QY	925	CAGATTGGACAAAGAAATGTGTGTTTAGTCCTTGACAAATCTGGAAGCATGCGACTGT	984
Db	301	GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly	320
QY	985	AACCGCTCAATCGACTGAATCAAGAGCCAGCTTTTCTGCTGCAGACAGTTGAGCTG	1044
Db	321	AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu	340
QY	1045	GGGTCTCGGTGGGATGCTGACATTTGACAGTGTGCTGCCCATGTACAAAGTGAACCTTA	1104
Db	341	GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle	360
QY	1105	CAGATAAACAGTGGCAGTGCACAGGACACACATCGCCMAAAGATTACTCGACAGCTTCA	1164
Db	361	GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer	380
QY	1165	GGAGGAGCTCCTCAATCTGCAGCGGGTTCGATCGGCAATTACTGTGATTAGGAAGAAAT	1224
Db	381	GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr	400
QY	1225	CCAACTGATGATCGAAATGCTGCTGCTGCGGATGGGAGAGACAACTATAGTGGG	1284
Db	401	ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly	420
QY	1285	TGCTTTAAACGAGGTCAAAACAAAGTGGTCCATCATCCACACAGTCGCTTTGGGGCCCTCT	1344
Db	421	CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer	440
QY	1345	GCAGTCAAGAACTAGAGAGCTGTCCAAATAGCAGAGGTTTACAGACATATGCTTCA	1404
Db	441	AlaAlaGlnGluLeuGluGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer	460
QY	1405	GATCAAGTTCAGAACAAATGGCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGGA	1464
Db	461	AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly	480
QY	1465	GCTGTCTCTCAGCGCTCCATCCAGCTTCAGAGTAGAGGATTAAACCTCCAGAACAGCCAG	1524
Db	481	AlaValSerGlnArgSerIleGlnLeuLysSerLysGlyLeuThrLeuGlnAsnSerGln	500
QY	1525	TGGATGAATGGCACAGTGCATCGTGACAGCCGCTGGGAAAGGACACTTGTCTTCTATC	1584
Db	501	TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle	520
QY	1585	ACCTGGACACAGCGCTCCCAAAATCTCTCTGGGATCCCGAGTGGGAGAGCAAGGT	1644
Db	521	ThrTrpThrThrGlnProProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly	540
QY	1645	GGCTTTGTAGTGGCAAAACACCAAAATGCGCTACCTCCAAATCCAGGCAATGCTAAG	1704
Db	541	GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys	560
QY	1705	GTTGGCACTTGAATACAGTCTGCAAGCAAGCTCACAAACCTTCACCCCTGACTGTACG	1764
Db	561	ValGlyThrTrpLysTyrSerLeuGlnAlaSerGlnThrLeuThrLeuThrValThr	580
QY	1765	TCCGCTGGCTCCAATGCTACCTCGCTCCAAATTACAGTAGCTTCCAAACGAACAGGAC	1824



QY 745 CAACATGTTGATTCTATAGTTGAATTTCTGTACAGAACAAACACCAACAAAGAGCTCCA 804  
 Db 241 GlnHisValAspSerIleValGluPheCysThrGluAsnHisAsnLysGluAlaPro 260  
 QY 805 AACAAAGCAAAATCAAAATTCGAATTCCTGACAGAACAAACACCAACAAAGAGCTCCA 864  
 Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgSerGlu 280  
 QY 865 GACTTTAAGAAACCACTCTCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTG 924  
 Db 281 AspPheLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu 300  
 QY 925 CAGATTGGCAAGAAATGTTGCTGTTAGTCCCTTGACAAATCTGGAAGCATGGCACTGCT 984  
 Db 301 GlnIleGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
 QY 985 AACCGCTCAATGACTGAATCAAGCAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTG 1044  
 Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
 QY 1045 GGGTCTGCTGGTGGGATGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACCTCAT 1104  
 Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
 QY 1105 CAGATAACAGTGGCAGTGCACAGGACACACTCGCCCAAGATTACTCGCAGCAGCTTCA 1164  
 Db 361 GlnIleAsnSerGlySerAspArgSerThrLeuAlaLysArgLeuProAlaAlaSer 380  
 QY 1165 GGAGGACGCTCCATCTGACGCGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224  
 Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysTyr 400  
 QY 1225 CCAACTGATGATCTGAATTTGCTGTGTCGAGATGGGAGACAACTATAGTGGG 1284  
 Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAsnThrIleSerGly 420  
 QY 1285 TGCTTTAAGAGGTCAAAAGTGGTGCATCATCCACAGTGCCTTTGGGCGCTCT 1344  
 Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
 QY 1345 GCAGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGAGAGGTTTACAGACATATGCTTCA 1404  
 Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrThrAlaSer 460  
 QY 1405 GATCAAGTTCAGAACATGGCTCATTTGATGCTTTTGGGCGCTTTCATCAGGAATGGA 1464  
 Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
 QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACTCCAGAACAGCCAG 1524  
 Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
 QY 1525 TGGATGAATGGCACAGTATCTGGACAGCACCGTGGGAAAGACACTTTGTTCTTATC 1584  
 Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
 QY 1585 ACCTGGACACGACGCTCCCAATCTTCTGCGGATCCAGTGGACAGAAAGCAAGT 1644  
 Db 521 ThrTrpThrThrGlnProGlnIleLeuLeuTrpAspProSerGlyGlnLysGlnGly 540  
 QY 1645 GGCTTTGTAGTGACAAACCAACCAATGGCTTACCTCCAAATCCAGGCAATGCTTAAG 1704  
 Db 541 GlyPheValValAspLysAsnThrLysMetAlaThrLeuGlnIleProGlyIleAlaLys 560  
 QY 1705 GTTGGCACTTGAATAATACAGTCTGCAAGCAAGAGCTCACAAACCTTGACCCGTACTGTCAG 1764  
 Db 561 ValGlyThrTrpLysThrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
 QY 1765 TCCGTGGCTCAATGCTACCTGCTTCAATTAAGTGAATTCCTCAAAACGCAAGGAC 1824  
 Db 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600

QY 1825 ACCGCAAAATTTCCCGAGCCCTCTGCTAGTATTTATGAAAATATTCGCCAAGAGCTCCCCA 1884  
 Db 601 ThrSerLysPheProSerProLeuValValTyAlaAsnIleArgGlnGlyAlaSerPro 620  
 QY 1885 ATTCTCAGGGCCAGTGTCTACAGCCCTGATTGAATCAGTGAATGAAAGAACAGTTTACTCTG 1944  
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 QY 1945 GAACCTACTGATAATAGGACGAGTGTCTGATCTACTACTAAGGATGACGGTGTCTACTCAAGG 2004  
 Db 641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTySerArg 660  
 QY 2005 TATTTTCAACATTTATCAGCAAGTGTGTAGATCAGTGTAAAGTGGGGCTCTGGGAGGA 2064  
 Db 661 TyrPheThrThrTyAspThrAsnGlyArgTySerValLysValArgAlaLeuGlyGly 680  
 QY 2065 GTTAAACGACGACGAGAGTGTATCCCGACAGAGTGGAGCATGTGTACATACCTCTGGC 2124  
 Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyIleProGly 700  
 QY 2125 TGGATTGAGATGATGAATAACAATGGAATCCCAAGACCTGAAATTAATTAAGGATGAT 2184  
 Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
 QY 2185 GTTCAACACAGCAAGTGTGTTCACAGCAACATCTCCGGAGGCTCATTTGGCTTCT 2244  
 Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
 QY 2245 GATGTCCCAAAATGCTCCCATCTCTCTCCACCTGGCCAAATACCCGACCTCTGAAG 2304  
 Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
 QY 2305 GCGGAAATTCAGGGGCGAGTCTCAATTAATCTGACTTGGACAGCTCTCGGGGATGATTAT 2364  
 Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspTyr 780  
 QY 2365 GACCATGGAACAGCTCACAGATATATTCGAATAGTACAGTATTTCTTCTCATCAGA 2424  
 Db 781 AspHisGlyThrAlaHisLysTyIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
 QY 2425 GACAAAGTTCAATGAATCTCTTCAAGTGAATCTCTCTCTCATCCCAAGCAAGCAAC 2484  
 Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
 QY 2485 TCTGAGGAAGTCTTTTGTTTAAACACAGAAACATTACTTTTGAATAATGGCACATCTT 2544  
 Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
 QY 2545 TTCATTGTCTATTCAGGCTGTGATAAGCTCGATCTGAAATCAGAAATATCCACATTGCA 2604  
 Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
 QY 2605 CGAGTATCTTTGTTTATTTCTCCACAGACTCCGCGCAGAGACACTAGTCTCTGATGAAACG 2664  
 Db 861 ArgValSerLeuPheIleProProGlnThrProProGluThrProSerProAspGluThr 880  
 QY 2665 TCTGCTCTCTGCTTAATATTCATATCAACAGCACCATTCCTGGCATTCACATTTTAA 2724  
 Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
 QY 2725 ATTATGTGAAGTGTAGGAACTGACGCTGTCAATAGCC 2766  
 Db 901 IleMetTrpTyIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 5

US-09-623-624-2

; Sequence 2, Application US/09623624

; Patent No. 6576434

; GENERAL INFORMATION:

; APPLICANT: Magainin Pharmaceuticals, Inc.

; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating

; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related

; TITLE OF INVENTION: Disorders

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; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/09/623,624
; CURRENT FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,110
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,168
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/980,872
; PRIOR FILING DATE: 1997-12-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-623-624-2
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Alignment Scores:
Pred. No.: 3,77e-310 Length: 913
Score: 3656.50 Matches: 694
Percent Similarity: 86.93% Conservatives: 102
Best Local Similarity: 75.85% Mismatches: 112
Query Match: 67.96% Indels: 7
DB: 4 Gaps: 4

US-09-049-696-20 (1-2983) x US-09-623-624-2 (1-913)

QY 25 ATGGGGCCCATTTAAGAGTTCTGTGTTTCATCTGATTCTTCACTTCTAGAGGGGCCCTG 84
Db 1 MetGluSerLeuLysSerProValPheLeuLeuLeuHisLeuLeuGluGlyValLeu 20

QY 85 AGTAATTCTACTTATTCAGCTGACACAAATGCGTATGAGGCAATTCCTGCTGCAATCGAC 144
Db 21 SerGluSerLeuLeuGlnLeuAsnAsnGlyTyrGluGlyValLeuLeuLeuLeuLeu 40

QY 145 CCCAATGTGCGAAGATGAACACATCAATCAACAAATAAGGACATGTGACCCAGGCA 204
Db 41 HisAspValProGluAspGluAlaLeuLeuGlnHisLeuLeuLeuLeuLeuLeuLeu 60

QY 205 TCTCTGTATCTGTTTGAAGCTACAGGAAGCGATTATTTTAAATGTTGCGATTG 264
Db 61 SerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaLeu 80

QY 265 ATTCTGGAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
Db 81 IleProGluSerTyrPheLysAlaLysProGluTyrThrArgProLysLeuGluThrPheLys 100

QY 325 AATGCTGATGTTCTGCTGAGTCTACTCTCCAGGTAATGATCAACCTACACTGAG 384
Db 101 AsnAlaAspValLeuValSerThrThrSerProLeuGluAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGCACTGTCGAGAGGAGGTTGAAGGATCCACTCACTCTGATTTTCAATGCA 444
Db 121 HisIleGlyAlaCysGlyGluLysGlyIleArgGlyLeuLeuThrProAspPheLeuAla 140
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QY 445 GGAAAAAGTTAGCTGAATATGACACCAAGTAGGCAATTTGTCCATGAGTGGGCTCAT 504
Db 141 GlyLysLysLeuThrGlnTyrGlyProGlnAspArgThrPheValHisGluThrPalaHis 160

QY 505 CTACGATGGGAGTATTTGACGAGTACAAATATGATGAGAAATTTCTACTTATCCAAATGA 564
Db 161 PheArgTyrGlyValPheAsnGlnTyrAsnAspGluLysPheTyrLeuSerLysGly 180

QY 565 AGAATACAGCAGTAAAGATGTTTCAGCAGGTATTTACTGGTACAAATCTAGTAAAGAGTCT 524
Db 181 LysProGlnAlaValArgCysSerAlaAlaIleThrGlyLysAsnGlnValArgCys 200

QY 625 CAGGAGGAGCAGCTGTATACACCAA--AGATCACATTCATAAAGTAAACAGACCTCAT 681
Db 201 GlnGlyGlySerCysIleThrAsnGlyLysCysValIleAspArgValThrGlyLeuTyr 220

QY 682 GAAAAAGGATGTGAGTTTCTTCCAAATCCGCCAGACGAGAGAGGCTTCTATAATGTTT 741
Db 221 LysAspAsnCysValPheValProAspProHisGlnAsnGluLysAlaSerIleMetPhe 240

QY 742 GCACACATGTTGATTTCTATAGTTCTGATCTGTACAGACAAACACACAAAGAGCT 801
Db 241 AsnGlnAsnIleAsnSerValValGluPheCysThrGluLysAsnHisGlnGluAla 260

QY 802 CCAACACAGCAAAATCAAAATGCAATCTCCGAAGCACATGGAAGTGTATCGTGATTTCT 861
Db 261 ProAsnAspGlnAsnGlnArgCysAsnLeuArgSerThrTyrPgluValIleGlnGluSer 280

QY 862 GAGGACTTTTAAGAAAAACCACTCTCTATGACACACACCCACCAATCCCACTTCTCATTTG 921
Db 281 GluAspPheLysGlnThrThrProMetThrAlaGlnProAlaProThrPheSerLeu 300

QY 922 CTGACAGATTGGACAAAGATTTGTGTTTGTAGTTCCTTGACAAATCTGAGACATGGCGACT 981
Db 301 LeuGlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetLeuAsn 320

QY 982 GGTAAACCGCTCAATCGACTGAATCAAGCAGCGACGCTTTCTCTGTCGACAGCTTGAG 1041
Db 321 AspAspArgLeuAsnArgMetAsnGlnAlaSerArgLeuPheLeuLeuGlnThrValGlu 340

QY 1042 CTGGGGTCTCTGGTTGGGATGTGATTTGACATTTGACGTGTGCCCCATGTACAAGTGAACTC 1101
Db 341 GlnGlySerTyrValGlyMetValThrPheAspSerAlaAlaTyrValGlnSerGluLeu 360

QY 1102 ATACAGATTAACAGTGGCAGTCACAGGACACACTCGCCCAAAAGATTACTCGACAGCT 1161
Db 361 LysGlnLeuAsnSerGlyAlaAspArgAspLeuLeuIleLysHisLeuProThrValSer 380

QY 1162 TCAGAGGAGCAGCTCCATCTGACGCGGCTTCGATCGGCATTTACTGTGATTAGCAAGAAA 1221
Db 381 AlaGlyGlyThrSerIleCysSerGlyLeuArgThrAlaPheThrValIleLysLysLys 400

QY 1222 TATCCAACTGATGGATCTGAAATTTGTGCTGCTGACGATGGGAGAGCAACATATAAGT 1281
Db 401 TyrProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSer 420

QY 1282 GGGTCTTTTAAACGAGTCAAAACAAAGTGTGCTCATCATCCACACAGTCTGCTTGGGGCCC 1341
Db 421 SerCysPheAsnValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyPro 440

QY 1342 TCTGACGCTCAAGAACTAGAGAGCTGTCCAAAATGACAGGAGGTTTACAGACATATGCT 1401
Db 441 AlaAlaAlaLysGluLeuGluGlnLeuSerLysMetThrGlyLeuGlnThrTyrSer 460

QY 1402 TCAGATCAAGTTTCAGAACAAATGCGCTCATTTGCTTTTGGGGGCCCTTTTCATCAGAAAT 1461
Db 461 SerAspGlnValGlnAsnAsnGlyLeuValAspAlaPheAlaAlaLeuSerSerGlyAsn 480

QY 1462 GGAGCTTCTCTCAGCGCTCCATCCAGCTTTCAGAGTAAAGGATTAACCTCCACAGACAGC 1521
Db 481 AlaAlaIleAlaGlnHisSerIleGlnLeuGluSerArgGlyValAsnLeuGlnAsnAsn 500

QY 1522 CAGTGGATGATGGCACAGTGTGCTGGAGCAGCAGCGTGGGAAAGACACTTTGTTTCTT 1581
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501 GlnTrpMetAsnGlySerValIleValAspSerSerValGlyLysAspThrLeuPheLeu 520  
 1582 ATCACTTGGACAACGACAGCTCCCAAAATCCTTCTCTGGATCCAGTCGACAGAAGCAA 1641  
 521 IleThrTrpThrHisProProThrIlePheIleTrpAspProSerGlyValGluGln 540  
 1642 GGTGGCTTTGTAGTGGACAATAACACAAATGGCTTACTTCCAAATPCCAGCAGTTCGT 1701  
 541 AsnGlyPheIleLeuAspThrThrThrLysValAlaTyrLeuGlnValProGlyThrAla 560  
 1702 AAGGTTGGCACTTGGAAATACAGTCTCCAGCAAGCTCACAACCTTGACCCGTGACTGTC 1761  
 561 LysValGlyPheTrpLysTyrSerIleGlnAlaSerGlnThrLeuThrLeuThrVal 580  
 1762 ACGTCCCGTGTGCTCCAATGTACCTCCCTCCAATTACAGTGACTTCCAAAACGAACAAG 1821  
 581 ThrSerArgAlaAlaSerAlaThrLeuProProIleThrValThrProValValAsnLys 600  
 1822 GACACAGCAAAATTTCCCGACCCCTCTGTAGTTTATGCAAAATATTCGCCAAGGAGCTCC 1881  
 601 AsnThrGlyLysPheProSerProValThrValTyrAlaSerIleArgGlnGlyAlaSer 620  
 1882 CCAATTCCTCAGGCGCAGTGTCCAGCCCTCATTCGAATCAGTGAATGAAAAACAGTTACC 1941  
 621 ProIleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThr 640  
 1942 TTGGAACTACTGGATAATGGACAGAGTGTGATGCTACTTAAGATGACGGTGTCTACTCA 2001  
 641 LeuGluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAsnAspGlyValTyrSer 660  
 2002 AGTATTTCACAACTTATATGACAGCAATGGTAGATACAGTGTAAAGTGGCGGCTCTGGGA 2061  
 661 ArgPhePheThrAlaPheAspAlaAsnGlyArgTyrSerValLysIleTyrAlaLeuGly 680  
 2062 GGAATTAAACGACGCCAGCAGGAGTGATACCCACGACAGATGGAGCTGTCTCATCCT 2121  
 681 GlyValThrSerAspArgGlnArgAlaAlaProProLysAsnArgAlaMetTyrIleAsp 700  
 2122 GGCTGGATTTCAGAAATGATAAATACATGAATGAAATCCACCAAGACTGAAATTAATAGGAT 2181  
 701 GlyTyrIleGluAspGlyGluValArgMetAsnProProArgProGluThrSerTyr--- 719  
 2182 GATGTTTCAACACAAAGCAAGTGTGTTCAGACAGAACATCTCCGGAGGCTCATTTGTGGCT 2241  
 720 ---ValGlnAspLysGlnLeuCysPheSerArgThrSerSerGlyGlySerPheValAla 738  
 2242 TCTGATGTCCTCA---AATGCTCCATACCTGATCTCTTCCACCTGGCCAAATCACCAGC 2298  
 739 ThrAsnValProAlaAlaProIleProAspLeuPheProCysGlnIleThrAsp 758  
 2299 CTGAAGCGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGGAT 2358  
 759 LeuLysAlaSerIleGlnGlyGlnAsnLeuValAsnLeuThrTrpThrAlaProGlyAsp 778  
 2359 GATTATGACCATGGAAACAGCTCAACAGTATATCATTCGAAATAAGTACAAGTATCTTGAT 2418  
 779 AspTyrAspHisGlyArgAlaSerAsnTyrIleIleArgMetSerThrSerIleValAsp 798  
 2419 CTCAGACACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAA 2478  
 799 LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuIleProLysGlu 818  
 2479 GCCAACTCTCAGGAAGTCTTTTGTGTTAAACCCAGAAAAACATTACTTTTGAATATGGCACA 2538  
 819 AlaSerSerGluGluIlePheGluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr 838  
 2539 GATCTTTTCATCTGATTTACGGCTGTGTGATAAGTTCGATCTGAAATCAGAAAAATATCAAC 2598  
 839 AspIlePheIleAlaIleGlnAlaValAspLysSerAsnLeuLysSerGluIleSerAsn 858  
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Db      859  IlealaArgValSerValPheIleProAlaGlnGluPro-----ProlleProGlu  875
QY      2659  GAAACGCTGCTGCTGCTGCTTAATATTCATATCAACAGCAGCACCATTCCTGGCATTACACATT  2718
Db      876  AsperSerThrProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal  895
QY      2719  TTTAAATATATGGAAGTAGTAGAGAACTGCAGCTGTCAATA  2763
Db      896  LeulysileMetTrpLysTrpLeuGlyGluMetGlnValThrLeu  910

RESULT 6
US-10-270-595-2
; Sequence 2, Application US/10270595
; Patent No. 6716603
; GENERAL INFORMATION:
; APPLICANT: Magainin Pharmaceuticals, Inc.
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related
; TITLE OF INVENTION: Disorders
; FILE REFERENCE: 36870-5073-WO
; CURRENT APPLICATION NUMBER: US/10/270,595
; CURRENT FILING DATE: 2002-10-16
; PRIOR APPLICATION NUMBER: US/09/623,624
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: PCT/US99/04703
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: US 08/697,360
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,419
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,440
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,471
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,472
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/697,473
; PRIOR FILING DATE: 1996-08-23
; PRIOR APPLICATION NUMBER: US 08/702,105
; PRIOR FILING DATE: 1996-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 913
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-270-595-2

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Alignment Scores:	
Pred. No.:	3.77e-310
Score:	3656.50
Percent Similarity:	86.99%
Best Local Similarity:	75.85%
Query Match:	67.96%
DB:	4
Length:	913
Matches:	694
Conservative:	102
Mismatches:	112
Indels:	7
Gaps:	4

US-09-049-696-20 (1-2983) x US-10-270-595-2 (1-913)

Qy	25	ATGGGGCCATTAAAGAGTTCGTGTTCATCTTGATCTTCACCTTCTAGAAGGGGCCCTG	84
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Qy	85	AGTAATTCACTCATTCAGCTGAACCAACAATGGCTATGAAGGCATTCGTGCTTCCAATCGAC	144
Db	21	SerGluSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValIlealaIleAsp	40
Qy	145	CCCAATGTCCAGAAGATGAACACTCATTCACAACAAATAAAGGCATCGTGTACCCAGGCA	204
Db	41	HisAspValProGluAspGluAlaLeuIleGlnHisIleLysAspMetValThrGlnAla	60



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Db 779 AspTyrAspHisGlyArgAlaSerAsnTyrIleIleArgMetSerThrSerIleValAsp 798
QY 2419 CTCAGACAGAGTTCATCAATCTCTCAAGTGAATAGTACTGCTCTCATCCCAAGAA 2478
Db 799 LeuArgAspHisPheAsnThrSerLeuGlnValAsnThrThrGlyLeuIleProLysGlu 818
QY 2479 GCCAACTCTGAGGAGTCTTTTGTAAACAGAAACATTAATCTTTGAAATGGCACA 2538
Db 819 AlaSerSerGluGluIlePheGluPheGluLeuGlyGlyAsnThrPheGlyAsnGlyThr 838
QY 2539 GATCTTTTCATGCTATTCAGGCTGTTGATAGGTCGATCTGAAATCAGAAATATCCAAAC 2598
Db 839 AspIlePheIleAlaIleGlnAlaValAspLysSerAsnLeuLysSerGluIleSerAsn 858
QY 2599 ATTGCACAGACTATCTTTGTTTATCTCCACAGACTCCGCCAGACACACCTAGTCTGAT 2658
Db 859 IleAlaArgValSerValPheIleProAlaGlnGluPro-----ProIleProGlu 875
QY 2659 GAAACGCTGCTCTGCTTCCTTAATATTCATATCAACAGCACCATTCTCGGCATTCACATT 2718
Db 876 AspSerThrProProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal 895
QY 2719 TTAATAATATGTGAAGTGAAGTAGAGAGAACTGCGAGCTGTCAATA 2763
Db 896 LeuLysIleMetTrpLysTrpLeuGlyGluMetGlnValThrLeu 910

RESULT 7
US-09-049-698-41
; Sequence 41, Application US/09049698
; Patent No. 6368792
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA A.
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: HAYDEN, MARK
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THE
; TITLE OF INVENTION: USEFUL FOR DETECTING DISEASES OF THE GASTROINTESTINAL
; TITLE OF INVENTION: TRACT
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/049,698
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,856
; FILING DATE: 31-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6068.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
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; LENGTH: 917 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6368792e
US-09-049-698-41
Alignment Scores:
Pred. No.: 3,11e-241 Length: 917
Score: 2866.50 Matches: 562
Percent Similarity: 75.03% Conservative: 123
Best Local Similarity: 61.56% Mismatches: 217
Query Match: 53.28% Indels: 11
DB: 3 Gaps: 8

US-09-049-696-20 (1-2983) x US-09-049-698-41 (1-917)
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QY 85 AGTAATTCACCTCATTACAGTGAACAAATGGCTATGAAGGCAATGTCTGTCATCGAC 144
Db 20 AsnThrSerPheIleLysLeuAsnAsnGlyPheGluAspIleValIleValIleAsp 39
QY 145 CCCAATGTGCCAGAGATGAACACTCATTCAACAAATAAAGGACATGTCGCCAGGCA 204
Db 40 ProSerValProGluAspGlyLysIleIleGlnIleGluAspMetValThrAla 59
QY 205 TCTCTGTATCTGTTGAAGCTACAGGAAAGGATTTTATTTCAAAAATGTTGCCATTTG 264
Db 60 SerThrTyrLeuPheGluAlaThrGluLysArgPhePheLysAsnValSerIleLeu 79
QY 265 ATTCTGAAACATGGAAGACAAAGGCTGACTATGTGAGACCAAACTTGAGACCTACAAA 324
Db 80 IleProGluAsnTrpLysGluAsnProGlnTyrLysArgProLysHisGluAsnHisLys 99
QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTATGATGACCCCTACACTGAG 384
Db 100 HisAlaAspValIleValAlaProThrLeuProGlyLysArgAspGluProThrLys 119
QY 385 CAGATGGGCAACTGTGAGAGAGAGGTTGAAAGGATCCACCTCCTCTGATTTCATTCGA 444
Db 120 GlnPheThrGluCysGlyGlyLysGlyGlyLysIleHisPheThrProAspLeuLeu 139
QY 445 GGAAAAAGTTAGCTGAATATGGAACCAAGGTAGGCAATTTGCCATGAGTGGGCTCAT 504
Db 140 GluLysLysGlnAsnGluTyrGlyProGlyLysLeuPheValHisGluTrpAlaHis 159
QY 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATCTTACTTATCCAAATGA 564
Db 160 LeuArgTrpGlyValPheAspGlyTyrAsnGluAspGlnProPheTyrArgAlaLysSer 179
QY 565 ---AGAAATACAAAGCAGTAAAGTGTTCAGCAGGATTTACTGTACAAATGTAGTAAAGAG 621
Db 180 LysLysIleGluAlaThrArgCysSerAlaGlyLysSerGlyArgAsnArgValTyrLys 199
QY 622 TGTGAGGAGGCGCTGTTACACCAAAAGATGCACATTCATAAAGTAAAGTAAAGGCTCTAT 681
Db 200 CysGlnGlyGlySerCysLeuSerArgAlaCysArgIleAspSerThrThrLysLeuTyr 219
QY 682 GAAAAAGGATGTGAGTGTTCATAGTTGAAATCTGTGACAGAAACAAACCAACAAAGAGCT 741
Db 220 GlyLysAspCysGlnPhePheProAspLysValGlnThrGluLysAlaSerIleMetPhe 239
QY 742 GCACAAACATGTTGATTTCTATAGTTGAAATCTGTGACAGAAACAAACCAACAAAGAGCT 801
Db 240 MetGlnSerIleAspSerValValGluPheCysAsnGluLysThrHisAsnGluGluAla 259
QY 802 CCAACCAAGCAAAATCAAAATGCAATCTCCGAAGCAGCATGGGAAGTGAATCCGATTCCT 861
Db 260 ProSerLeuGlnAsnIleLysCysAsnPheArgSerThrTrpGluValIleSerAsnSer 279
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; FEATURE:
; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal
; OTHER INFORMATION: epithelium (Cunningham et al., 1995, J. Biol Chem., 270:31016-
; OTHER INFORMATION: 31026)
US-09-193-562D-46

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Alignment Scores:	
Pred. No.:	5,39e-206
Score:	2462.50
Percent Similarity:	71.04%
Best Local Similarity:	55.44%
Query Match:	45.77%
DB:	3
Length:	903
Matches:	494
Conservative:	139
Mismatches:	233
Indels:	25
Gaps:	13

US-09-049-696-20 (1-2983) x US-09-193-562D-46 (1-903)

QY	25	ATGGGGCCATTAAAGATTCTGTGTCTCACTTCTTACCTTCTGAAGAGGGGCCCTTG	84
DB	1	MetValProArgLeuThrValIleLeuPheLeuThrLeuHisLeuLeuProGly---Met	19
QY	85	AGTAATTCACATTCAGCTCAGAACAAACATGGCTATGAAGGATGTCGTTCGAATCCAG	144
DB	20	LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn	39
QY	145	CCCAATGTGCCAGAAGATGAACACTCAATTCACAAATAAAGGACATGGTGACCCAGCA	204
DB	40	ProSerValProGluAspGluLeuLeuGlnAsnIleGluMetValThrGluAla	59
QY	205	TCTCTGTATCTGTTTGAGCTACAGGAAGCGATTTATTTCAAAAATGTTCCCATTTTG	264
DB	60	SerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsnValSerIleLeu	79
QY	265	ATTCCTGAAACATCGAAGACAAAAGGCTCACTATGTGACAGCAAAACTTGGAGACCTACAA	324
DB	80	IleProMetThrTrpLysSerLysSerGlnTyrLeuMetProLysGlnGluSerTyrAsp	99
QY	325	AATGCTGATGTTCTGTGTTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG	384
DB	100	GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspAspProTyrThrLeu	119
QY	385	CAGATGGCAACTGTGGAGAGAAGGTCAAAAGATCCACCTCACCTCTGATTTCATTGCA	444
DB	120	GlnTyrGlyArgCysGlyGlnLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeu	139
QY	445	GGAAAAAGTTAGCTGAATATGGACCAAGATAGGCACTTGTCCATGAGTGGGCTCAT	504
DB	140	ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGlnTrpAlaHis	159
QY	505	CTACGATGGGAGTATTTCACGAGTACAAATATGATGAGAAATCTCATTATCC---AAT	561
DB	160	LeuArgTrpGlyIlePheAspGlnTyrAsnGlyAspGlnProPheTyrIleSerArgAsp	179
QY	562	GGAGAATACAAAGCAGTAAAGTGTTCAGCAGGTATTCTACTGGTACAAATGTACTAAGAAG	621
DB	180	AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys	199
QY	622	TGTACGGAGGAGCTGTTTACACCAAAAGATCCATCAATAAAGTACACGAGCTCTAT	681
DB	200	CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr	219
QY	682	GA AAAAGGATGTGAGTTTGTCTCCAAATCCCGCCAGACGAGAAGGCTTCTATATGTTT	741
DB	220	GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe	239
QY	742	GCACAACATGTTGATTCTATAGTTGAATTCTGTACAGAAACAAACCAACAAAGAAGCT	801
DB	240	MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla	259
QY	802	CCAAACAGCAAAATCAAAAATGCATCTCCGAAGCACATGGGAAGTGATCCGTGATTCCT	861
DB	260	ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTrpAspValIleMetAsnSer	279
QY	862	GAGGACTTTAAGAAAACCACTCCTATGACA-----ACACAGCCACCAATCCCACTTC	915

Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTyrAspAsnGlyAlaGlyAlaAsp 657  
 QY 1975 GCTACTAAGGATCAGCTGCTCTACTCAAGGTATTTTACAACTTATACAGATGATGATGATA 2034  
 Db 658 AlaThrLysAspGlyValTyrSerArgTyrPheThrTyrAspThrAsnGlyArg 677  
 QY 2035 TACAGTGTAAAGTGGGCTCTGGGAGGAGTTAAGCGAGGAGTTCACAGCGAGGAGGTATACCC 2094  
 Db 678 TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
 QY 2095 CAGCAGAGTGAGGACTGTACATACCTGCTGCTGATGAGATGAGATGAGATGAGATGAGAT 2154  
 Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleLeuAsn 717  
 QY 2155 CCACCAAGACCTGGAATTAATTAAGGATGATGATGATGATGATGATGATGATGATGATGAT 2211  
 Db 718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleGluAspPheSer 736  
 QY 2212 AGAACATCTCGGAGGCTCATTTTGGCTTCTGATGCTCCAAATGCTCCCATACCTGAT 2271  
 Db 737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
 QY 2272 CTCCTCCACCTGGCCAAATACCCAGCTGAAGGCG-----GAAATTCACGGGGGC 2322  
 Db 757 ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis----- 774  
 QY 2323 AGTCTCATTAATCTGACTGGACAGCTCTGGGATGATTATGACCATGGAACAGCTCAC 2382  
 Db 775 -----IleGlnLeuSerTyrPheAlaProAlaAsnValLeuAspGlyLysAlaAsn 792  
 QY 2383 AAGTATATCATTCGAATTAAGTACAAGTATTTCTGATCTCAGAGCAAGTTCATGAATCT 2442  
 Db 793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla 812  
 QY 2443 CTTCAAGTGAATACCTACTGCTCTCTATCCCAAGAGAGCAACTCTGAGGAAGTCTTTTGG 2502  
 Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832  
 QY 2503 TTTAAACAGAAACATTACTTTTCAAAATGGCAGAGATCTTTTCTATTCTATTCTAGGCT 2562  
 Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
 QY 2563 GTTGATAAGGTGATCTGAATCAGAAATATCCAACTTGCACAGATATCTTTGTTTATT 2622  
 Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872  
 QY 2623 CTTCCACAGACTCCCGCAGAGACACTAGTCCT 2655  
 Db 873 Pro-----MetProGluAspSerValPro 880

## RESULT 9

US-10-055-412B-46  
 ; Sequence 46, Application US/10055412B  
 ; Patent No. 662939  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pauli, Benedicht U.  
 ; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
 ; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
 ; FILE REFERENCE: 18617.0058  
 ; CURRENT APPLICATION NUMBER: US/10/055,412B  
 ; CURRENT FILING DATE: 2001-10-29  
 ; PRIOR APPLICATION NUMBER: US/09/193,562  
 ; PRIOR FILING DATE: 1998-11-17  
 ; PRIOR APPLICATION NUMBER: US/60/065,922  
 ; PRIOR FILING DATE: 1997-11-17  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 46  
 ; LENGTH: 903  
 ; TYPE: PRT  
 ; ORGANISM: Unknown  
 ; FEATURE:  
 ; OTHER INFORMATION: Calcium sensitive chloride channel from bovine tracheal  
 ; OTHER INFORMATION: (Cunningham et al., 1995, J. Biol. Chem., 270:31016-31026)

## US-10-055-412B-46

Alignment Scores:  
 Pred. No.: 5,39e-206 Length: 903  
 Score: 2462.50 Matches: 494  
 Percent Similarity: 71.04% Conservative: 139  
 Best Local Similarity: 55.44% Mismatches: 233  
 Query Match: 45.77% Indels: 25  
 DB: 4 Gaps: 13

## US-09-049-696-20 (1-2983) x US-10-055-412B-46 (1-903)

QY 25 ATGGGGCCATTTAAGAGTTCCTGTTTCATCTTGTATCTTCACTTCTTAGAAGGGGCCCTG 84  
 Db 1 MetValProArgLeuThrValIleLeuPheLeuThrLeuHisLeuLeuProGly---Met 19  
 QY 85 AGTAATCTCATTCTCAGCTGAACCAATGCTATGAAGCATTTGTCTTCCCTTGCATTCGAC 144  
 Db 20 LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn 39  
 QY 145 CCCAATGTCAGAGATGAACACTCATTCAACAAATAAGAGCATGCTGAGCCAGGCA 204  
 Db 40 ProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMetValThrGluAla 59  
 QY 205 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGCTTCCCATTTTG 264  
 Db 60 SerThrTyrLeuPheHisAlaThrLysArgArgValTyrPheArgAsnValSerIleLeu 79  
 QY 265 ATTCCTGAAACATGAAGCAAGGCTGACTATGTGAGACCAAAACTTGAAGACCTACAAA 324  
 Db 80 IleProMetThrTyrLysSerLysSerGluTyrLeuMetProLysGlnSerTyrAsp 99  
 QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGACCCCTACTGAG 384  
 Db 100 GlnAlaGluValIleValAlaAsnProTyrLeuLysHisGlyAspSerProTyrThrLeu 119  
 QY 385 CAGATGGCAACTGTGGAGAGAGGTTGAAAGGATCCACCTCAGCTCCTGATTTTCATTGCA 444  
 Db 120 GlnTyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeu 139  
 QY 445 GGAAAAAGTTAGCTGAATATGACCAACAGGTAGGCAATTTGTCCATGAGTGGCTCAT 504  
 Db 140 ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHis 159  
 QY 505 CTACGATGGGAGATTTTCAGAGTACAAATATGATGAGAAATTTCTATTATCC---AAT 561  
 Db 160 LeuArgTyrGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg 179  
 QY 562 GGAAGAATACAGCAGTAAGATGTTTTCAGCAGGTATTACTGTGTAATAAGTGTAGTAAGAAG 621  
 Db 180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys 199  
 QY 622 TGTGAGGAGGAGCTGTTTACACCAAAAGATGCACATTTCAATAAAGTAACAGGACTCTAT 681  
 Db 200 CysGlnGlyGlySerCysIleThrArgProCysArgArgSerGlnThrGlyLeuTyr 219  
 QY 682 GAAAAAGATGATGAGTTTGTCTCCATCCCGCAGAGCGGAGAGGCTCTATATATGTTT 741  
 Db 220 GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe 239  
 QY 742 GCACAAACATGTTGATTTCTATAGTTGAATTTCTGTACAGAAACAAACCAACAAAGAGCT 801  
 Db 240 MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla 259  
 QY 802 CCAACAGCAAAATCAAAATGCAATCTCGAAGCAGATCGGAAGTATCCGTGATTCCT 861  
 Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTyrAspValIleMetAsnSer 279  
 QY 862 GAGGATTTTAAAGAAAACACTCTCTATGACA-----ACACAGCCACCAAAATCCCACTTC 915  
 Db 280 ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProProThrGlnProThrPhe 299  
 QY 916 TCATTGCTGCAGATTGGCAAAAGAAATTGTGTGTTTAGTCTTGTGACAAATCTGGAAGCATG 975

Db 300 SerLeuLysSerLysLeuValCysLeuValLeuAspLysSerGlySerMet 319  
Qy 976 GCGACTGTAAACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTCTCTCTCGACACA 1035  
Db 320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaGluLeuPheLeuIleGlnIle 339  
Qy 1036 GTTGAGCTGGGCTCGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 1095  
Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
Qy 1096 GAATCATACAGATAAAGTGGGAGTGCACAGGACACACTCGCCAAAAGATTACTCTCA 1155  
Db 360 AsnLeuThrLysIleThrAspAspAsnValTyrGluAsnIleThrAlaAsnLeuProGln 379  
Qy 1156 GCAGCTTCAGGAGGAGCTCCATCTGCAGCGGGCTTCGATCGGCAATTT---ACTGTGATT 1212  
Db 380 GluAlaAsnGlyGlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIle 399  
Qy 1213 AGGAAGAAATATCCAACTGATGATCTGAATTTGGCTGTGTCGCGGATGGGAGACAAAC 1272  
Db 400 GlnSerGlnGlnSerThrSerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsn 419  
Qy 1273 ACTATAAGTGGGTCTTTAAACAGAGTCAAAAGTGGTGGCTCATCTCCACACAGCTCGCT 1332  
Db 420 GluIleHisSerCysIleGluGluValLysGlnSerGlyValIleIleHisThrValAla 439  
Qy 1333 TTGGGGCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATCAGAGGAGTTTACAG 1392  
Db 440 LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArg 459  
Qy 1393 ACATATGCTTCAGATCAAGTTCAGAAACATGGCTTCATGCTTTTGGGCGCTTTTCA 1452  
Db 460 PheTyrAlaAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477  
Qy 1453 TCAGGAATGGAGCTGCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGGATTAAACCCCTC 1512  
Db 478 SerArgSerGlySerIleThrGlnIleThrIleGlnLeuGluSerLysAlaLeuAlaIle 497  
Qy 1513 CAGAACACCCAGTGGATGATGGCAGTGTGTCGAGCAGCAGCGTGGGAAGACACT 1572  
Db 498 ThrGluLysLysTyrIleValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr 517  
Qy 1573 TTGTTTCTATCCTGACGACAGCAGCTCCCAATCTCTCTGCGATCCCACTGGA 1632  
Db 518 PhePheValValThrTyrThrIleLysLysProGluIleLeuLeuGlnAspProLysGly 537  
Qy 1633 CAG-----AAGCAAGTGGCTTCTAGTGGCAAAA---AACACCAAAATGGCCTACCTC 1683  
Db 538 LysLysTyrLysThrSerAspPheLysGluAspLysLeuAsnIleHisSerAlaArgLeu 557  
Qy 1684 CAAATCCAGGCAATTCGTAAGTTGGCACTTGGAAATACAGTCTG-----CAAGCA 1734  
Db 558 ArgIleProGlyIleAlaGluThrGlyThrTyrThrTyrSerLeuLeuAsnHisAla 577  
Qy 1735 AGCTCACAACCTTACCTGACTGCTCAGTCCCTGGTCCCAATGCTACCTGCTGCTCA 1794  
Db 578 SerProGlnIleLeuThrValThrValThrArgAlaArgSerProThrThrProPro 597  
Qy 1795 ATTACAGTGACTTCCAAAACGAAACAGGACACAGCAAAATCCCGAGCCTCTGTGTAGTT 1854  
Db 598 ValThrAlaThrAlaHisMetAsnGlnAsnThrAlaHisTyrProSerProValIleVal 617  
Qy 1855 TATGCAAAATATTCGCAAGAGCCTCCCAATTTCTCAGGCGCAGTGTACAGCCCTGATT 1914  
Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGluIleAsnValThrAlaIleIle 637  
Qy 1915 GAATCAGTGAATGGAAAACAGTTACCTTGGAACTACTGGTAATGGAGCAGGTGCTGAT 1974  
Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuThrAspAsnGlyAlaGlyAlaAsp 657  
Qy 1975 GCTACTAAGTGAAGTGTCTTACTCAAGTATTTTCAACACTTATGACACGAATGGTGA 2034

Db 658 AlaThrLysAspAspGlyValTyrSerArgTyrPheThrThrTyrAspThrAsnGlyArg 677  
Qy 2035 TACAGTGTAAAGTGGCGGCTCTGGGAGGAGTTAACGACGACGAGGAGAGTATACCC 2094  
Db 678 TyrSerValLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
Qy 2095 CAGCAGAGTGGAGCAGCTGATACATACCTGGCTGGATTTGAGATGATGAAATCAATGGAAT 2154  
Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleLeuAsn 717  
Qy 2155 CCACCAAGACCTGAAATTAATTAAGATGATGTTCAACAACAAGCAAGTG---TGTTCACG 2211  
Db 718 ProProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleGluAspPheSer 736  
Qy 2212 AGACATCTCTGGAGGCTGATTTGTGGCTCTGATGCTCCAAATGCTCCCATACCTGAT 2271  
Db 737 ArgLeuThrSerGlySerPheThrValSerGlyAlaProGlyAsnHisProSer 756  
Qy 2272 CTCTTCCACCTGGCCAAATCACCGACTGAAAGCG-----GAAATTCACGGGGGC 2322  
Db 757 ValLeuProProAsnLysIleThrAspLeuGluAlaLysPheLysGluAspHis----- 774  
Qy 2323 AGTCTCATTAATCTCAGCTTGGACAGCTCTCTGGGATGATGATGACGACAGCTCAC 2382  
Db 775 -----IleGlnLeuSerTyrThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
Qy 2383 AAGTATATCATTCGAATTAAGTACAGATTTCTTGTATCTCAGACAGCAAGTTCAATGAACT 2442  
Db 793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAla 812  
Qy 2443 CTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTCTTTTGT 2502  
Db 813 ThrLeuValAsnThrSerSerLysLysProLysGluAlaGlySerAspLeuAsnPheGlu 832  
Qy 2503 TTTAAACCAAGAAAACATTACTTTTGAATAATGGCAGATCTTTTCATTGCTTATTCAGCT 2562  
Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
Qy 2563 GTTGATAAGTGTGATCTGAAATCAGAAATATCCAAATATCCAACTGACGAGTATCTTTGTTAT 2622  
Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872  
Qy 2623 CTCCACAGACTCCCGCAGACAGACCTAGTCTCT 2655  
Db 873 Pro-----MetProGluAspSerValPro 880  
RESULT 10  
US-09-623-624-18  
; Sequence 18, Application US/09623624  
; Patent No. 6576434  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/09/623,624  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: PCT/US99/04703  
; PRIOR FILING DATE: 1999-03-03  
; PRIOR APPLICATION NUMBER: US 08/697,360  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,419  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,440  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,471  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,472  
; PRIOR FILING DATE: 1996-08-23  
; PRIOR APPLICATION NUMBER: US 08/697,473

QY	25	ATGGGGCCATTTAAGAGTCTGTGTTCATCTTGATCTCTACCTCTTAGAAGGGCCCTG	84
Db	1	MetValProArgLeuThrValIleLeuPheLeuThrLeuHisLeuLeuProGly--Met	19
QY	85	AGTAATTCACTCATTCAGCTGAACAACAATGGCTATGAGGCATTCGTGTGCATCGAC	144
Db	20	LysSerSerMetValAsnLeuIleAsnAsnGlyTyrAspGlyIleValIleAlaIleAsn	39
QY	145	CCCAATGTCCCAAGAGATGAACACTCATTCACAAATAAAGGACATGGTGACCAGGCA	204
Db	40	ProSerValProGluAspGluLysLeuIleGlnAsnIleLysGluMetValThrGluAla	59
QY	205	TCCTGTATCTCTTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATGTTGCCATTTTG	264
Db	60	SerThrTyrLeuPheHisAlaThrLysArgValTyrPheArgAsnValSerIleLeu	79
QY	265	ATTCTGTAACATGAACACAAGGCTACACTATGTGAGACCAAACTTGGACCTACAA	324
Db	80	IleProMetThrTrpLysSerLysSerGluTyrLeuMetProLysGlnGluSerTyrAsp	99
QY	325	AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTATGAAACCTACACTGAG	384
Db	100	GlnAlaGluValIleValAlaAsnProTyrIleuLysHisGlyAspAspProTyrThrLeu	119
QY	385	CAGATGGGCACTGTGGAGAGAGGTTGAAGATCCACTCTCTCTGATTTTCATTGCA	444
Db	120	GlnTyrGlyArgCysGlyGluLysGlyGlnTyrIleHisPheThrProAsnPheLeuLeu	139
QY	445	GGAAAAAGTTAGCTGAATATGGACCACAAAGTAGGCATTTGTCATGATGGCGTCAT	504
Db	140	ThrAsnAsnLeuProIleTyrGlySerArgGlyArgAlaPheValHisGluTrpAlaHis	159
QY	505	CTACGATGGGAGTATTTGACGAGTACAAATAATGATGAGAAATTTCTACTTATCC--	561
Db	160	LeuArgTrpGlyIlePheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgArg	179
QY	562	GGAAGATACAAGCAGTAAAGTGTTCACAGGTTATTACTGGTACAAATGTAGTAAAGA	621
Db	180	AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys	199
QY	622	TGTCAGGAGGCGAGCTGTTTACACAAAAGATGCACATTCATAAAGTAAACAGAGCTCAT	681
Db	200	CysGlnGlyGlySerCysIleThrArgProCysArgArgAspSerGlnThrGlyLeuTyr	219
QY	682	GAAGAAGGATGTAGTTGTCTCOAATCCCGCAGACGAGAGGCTTCTATATATGTTT	741

QY	1795	ATTACAGTGACTTCCAAAACGAACAAGGACACAGCAGCAAAATCCCCAGCCCTCTGGAGATT	1854
Db	598	ValThrAlaThrAlaHisMetSerGlnAsnThrAlaHisTyrProSerProValIleVal	617
QY	1855	TATGCCAAATATTCCGCAAGGAGCCTCCCAATCTCAGGCCAGTGTCCAGACCCCTGATT	1914
Db	618	TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIle	637
QY	1915	GAATCATGTAATGGAAAAACAGTTTACCTTGGAACTACTGATATAATGAGCAGGTGCTGAT	1974
Db	638	GluThrGluAspGlyHisGlnValThrLeuGluLeuThrAspAsnGlyAlaGlyAlaAsp	657
QY	1975	GCTACTAAGGATGACGGTGTCTACTCAAGTATTTTCAAACTTATGACCAAGTGTAGA	2034
Db	658	ThrValIysAsnAspGlyIleTyrSerArgTyrPheThrAspTyrArgGlyAsnGlyArg	677
QY	2035	TACAGTCTAAAAGTCGGGCTCTGGGAGGAGTTAAACGACGACGAGCGAGGTGATACCC	2094
Db	678	TyrSerLeuIysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln	697
QY	2095	CACGACAGTGGAGCACTGTACATACCTCGGCTGGATTGAGAATGATGAAATACAAATGGAAT	2154
Db	698	ProGlnAsnIysAlaLeuTyrIleProGlyTyrIleGluAsnGlyIysIleIleLeuAsn	717
QY	2155	CCACCAAGACTGAAATTAATAAGATGATGTTTCAACACAAAGCAAGTG---	2211
Db	718	ProProArgProGluVal---LysAspAspLeuAlaIysAlaGluIleGluAspPheSer	736
QY	2212	AGAACATCTCGGGAGGCTCATTTGTGGCTTCATGTCCTCCAAATGCTCCCATCCTGAT	2271
Db	737	ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer	756
QY	2272	CTCTTCCCACTCGCCAAATCACGACCTCAAGGCG-----GAAATTCAGGGGCG	2322
Db	757	ValLeuProProAsnIysIleIleAspLeuGluAlaIysPheIysGluAspHis-----	774
QY	2323	AGTCTCATTAATCTGACTCGACAGCTCTCGGGAGTATTATGACCATGGAACAGCTCAC	2382
Db	775	-----IleGlnLeuSerTprAlaProAlaAsnValLeuAspIysGlyLysAlaAsn	792
QY	2383	AGTATATCATTCGAATAAGTACAGTATTCTTTGATCTCAGACACAAGTTCATGATCT	2442
Db	793	SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla	812
QY	2443	CTTCAAGTGAATACTACTGCTCTCATCCCAAGGAGCAACTCTGAGGAAGTCTTTTGT	2502
Db	813	ThrLeuValAsnThrSerSerLeuLysProGlyGluAlaGlySerAspGluAsnPheGlu	832
QY	2503	TTTAAACCGAAAAACATTACTTTTGAATAATGGCACAGATCTTTTTCATTTCAGGCT	2562
Db	833	PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla	852
QY	2563	GTTGATAAGTGTGATCTGAAATCAGAATATCCAACTTCAGATTCGACGAGTATCTTTTATT	2622
Db	853	IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle	872
QY	2623	CTTCCACAGACTCCGCCAGACAGACACCTAGTCCT	2655
Db	873	Pro-----MetProGluAspSerValPro	880
RESULT 11			
US-10-270-595-18			
; Sequence 18, Application US/10270595			
; Patent No. 6716603			
; GENERAL INFORMATION:			
; APPLICANT: Magainin Pharmaceuticals, Inc.			
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating			
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related			
; TITLE OF INVENTION: Disorders			
; FILE REFERENCE: 36870-5073-WO			
; CURRENT APPLICATION NUMBER: US/10/270,595			
; CURRENT FILING DATE: 2002-10-16			

Db 160 LeuArgTrpGlyLeuPheAspGluTyrAsnGlyAspGlnProPheTyrIleSerArgAtg 179  
 QY 562 GGAAGAATACAGCAGTATGTTTCAGCAGGATTTACTGTTACAAATAGTAAAGAAG 621  
 Db 180 AsnThrIleGluAlaThrArgCysSerThrHisIleThrGlyThrAsnValIleValLys 199  
 QY 622 TGTCCAGGAGGAGCTGTTTACACCAAAAGATGCACATTCATTAATAAGTAACAGACTCTAT 681  
 Db 200 CysGlnGlyGlySerCysIleThrArgProCysArgAspSerGlnThrGlyLeuIyr 219  
 QY 682 GAAAGAAGTGTGAGTTTCTTCCAAATCCCGCAGACGAGAGAGCTTCTATAATGTTT 741  
 Db 220 GluAlaLysCysThrPheIleProGluLysSerGlnThrAlaArgGluSerIleMetPhe 239  
 QY 742 GCACAACATGTTGATTCTATAGTTGAATTCGTACAGAACAAACACACAAAGAGCT 801  
 Db 240 MetGlnSerLeuHisSerValThrGluPheCysThrGluLysThrHisAsnValGluAla 259  
 QY 802 CCAAAACAGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGTATCGTGATTC 861  
 Db 260 ProAsnLeuGlnAsnLysMetCysAsnGlyLysSerThrTyrAspValIleMetAsnSer 279  
 QY 862 GAGGACTTAAAGAAACCTCTCTATGACA-----ACAGCCCAAAATCCCACTTC 915  
 Db 280 ThrAspPheGlnAsnThrSerProMetThrGluMetAsnProProThrGlnProThrPhe 299  
 QY 916 TCATTGCTGCAGATTGGACAAAGATTTGTGTTAGTCTTCACAAATCTGGAAGCATG 975  
 Db 300 SerLeuLeuLysSerLysGlnArgValValCysLeuValLeuAspLysSerGlySerMet 319  
 QY 976 GCGACTGTGAACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTCTCTGCTGCAGACA 1035  
 Db 320 SerSerGluAspArgLeuPheArgMetAsnGlnAlaAlaGluLeuPheLeuIleGlnIle 339  
 QY 1036 GTTAGCTGGGTCTCGGGTCTGGATGGTGAATTTGACAGTGTGCTGCCCATGTACAAAT 1095  
 Db 340 IleGluLysGlySerLeuValGlyMetValThrPheAspSerValAlaGluIleArgAsn 359  
 QY 1096 GAACTCATACATAACAGTGGCAGTGCAGGACACACTCGCCAAAGATTACTGCA 1155  
 Db 360 AsnLeuThrLysIleThrAspAsnValTyrGluAsnIleThrAlaAsnLeuProGln 379  
 QY 1156 CGAGCTTCAGGAGGACGTCCATCTGCAGCGGCTTCGATCGGCATTT---ACTGTGATT 1212  
 Db 380 GluAlaAsnGlyGlyThrSerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIle 399  
 QY 1213 AGGAAGAATATCCAACTGATGATCTGAAATTTGCTGCTGACGGATGGGGAAGACAAAC 1272  
 Db 400 GlnSerGlnGlnSerThrSerGlySerGluIleIleLeuLeuThrAspGlyGluAspAsn 419  
 QY 1273 ACTATAAGTGGTGTCTTAAACAGGTCAAAAGTGTGTCATCATCCACACAGCTCGCT 1332  
 Db 420 GluIleHisSerCysIleGluValLysGlnSerGlyValIleIleHisThrIleAla 439  
 QY 1333 TTGGGGCCCTCTCGAGCTCAAGAACTAGAGAGCTGTCCAAATGACAGGAGGTTTACAG 1392  
 Db 440 LeuGlyProSerAlaAlaLysGluLeuGluThrLeuSerAspMetThrGlyGlyHisArg 459  
 QY 1393 ACATATGCTTCAGATCAATTCAGAACAAATGCGCTCATGTGCTTTGGGGCCCTTCA 1452  
 Db 460 PheTyrAlaAsnLysAspIle-----AsnGlyLeuThrAsnAlaPheSerArgIleSer 477  
 QY 1453 TCAGGAATGGAGCTGTCTCTCAGCGCTCATCCAGCTTGAGAGTAAGGATTAACCTC 1512  
 Db 478 SerArgSerGlySerIleThrGlnThrIleGlnLeuGluSerLysAlaLeuAlaIle 497  
 QY 1513 CAGAACAGCCAGTGAATGGCAGTGTGATCGTGGACAGCACCGCTGGGAAAGGACACT 1572  
 Db 498 ThrGluLysLysTrpValAsnGlyThrValProValAspSerThrIleGlyAsnAspThr 517  
 QY 1573 TTGTTTCTATACCTGGACAGCGCTCCCAAAATCTCTCTGGATCCCAAGTGA 1632  
 Db 518 PhePheValValThrTrpThrIleLysLysProGluIleLeuLeuGlnAspProLysGly 537

QY 1633 CAG-----AAGCAAGTGGCTTTGTAGTGGCAAA---AACACCAAAATGGCTACCTC 1683  
 Db 538 LysLysTyrLysThrSerAspPheLysGluAspLysLeuAsnIleHisSerAlaArgLeu 557  
 QY 1684 CAAATCCCAAGGATTCCTAAGGTGGCACTTCGAAATACAGTCTG-----CAAGCA 1734  
 Db 558 ArgIleProGlyIleAlaGluThrGlyThrTrpThrTyrSerLeuLeuAsnHisAla 577  
 QY 1735 AGCTCACAACCTTCACCTGACTGTCAGTCCCGTGGTCCAAATGCTACCTGCTGCCA 1794  
 Db 578 SerProGlnIleLeuThrValThrArgAlaArgSerProThrThrProPro 597  
 QY 1795 ATTACAGTCACTTCCAAAACGACAAAGACACCAATTCAGGAGCTGTGCAGCCCTGATT 1854  
 Db 598 ValThrAlaAlaHisMetSerGlnAsnThrAlaHisTyrProSerProValIleVal 617  
 QY 1855 TATGCAAAATATTCCGCAAGGAGCTCCCAATTTCTCAGGCGGCTGTGCAGCCCTGATT 1914  
 Db 618 TyrAlaGlnValSerGlnGlyPheLeuProValLeuGlyIleAsnValThrAlaIleIle 637  
 QY 1915 GAATCAGTGAATGGAAAACAGTTTACCTTGGAACTTACTGGATAATGGACAGGTGCTGAT 1974  
 Db 638 GluThrGluAspGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAsp 657  
 QY 1975 GCTACTAAGGATGACGGTCTCTCAAGTATTTTCAACTTATGACAGAAATGGTAGA 2034  
 Db 658 ThrValLysAsnAspGlyIleTyrSerArgTyrPheThrAspTyrArgGlyAsnGlyArg 677  
 QY 2035 TACAGTGAAGAGTGGGGCTCTGGGAGGAGTTAAACGACGACGAGGAGGTATACCC 2094  
 Db 678 TyrSerLeuLysValHisAlaGluAlaArgAsnAsnThrAlaArgLeuSerLeuArgGln 697  
 QY 2095 CAGCAGAGTGGAGCATGTGTACATACCTGCTGGATGAGATGATGAGAAATACAATGGAAT 2154  
 Db 698 ProGlnAsnLysAlaLeuTyrIleProGlyTyrIleGluAsnGlyLysIleLeuAsn 717  
 QY 2155 CCACCAAGACCTGAAATTAATAAGGATGATGTTTCAACACCAAGTGA---TGTTCAGC 2211  
 Db 718 PropProArgProGluVal---LysAspAspLeuAlaLysAlaGluIleGluAspPheSer 736  
 QY 2212 AGAATCTCTCGGAGGCTCATTTCTGCTGTGATGTGCCAAATGTCCCACTACCTGAT 2271  
 Db 737 ArgLeuThrSerGlyGlySerPheThrValSerGlyAlaProProGlyAsnHisProSer 756  
 QY 2272 CTCCTCCACCTGGCCAAATCACCGACCTGAAGGCG-----GAAATTCACGGGGCG 2322  
 Db 757 ValLeuProProAsnLysIleIleAspLeuGluAlaLysPheLysGluAspHis 774  
 QY 2323 AGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGACACGCTAC 2382  
 Db 775 -----IleGlnLeuSerIleThrAlaProAlaAsnValLeuAspLysGlyLysAlaAsn 792  
 QY 2383 AAGTATATCATTCGAATAAGTACAGATTTCTTGATCTCAGAGACAAGTTCAATGAATCT 2442  
 Db 793 SerTyrIleIleArgIleSerLysSerPheLeuAspLeuGlnLysAspPheAspAsnAla 812  
 QY 2443 CTTCAAGTGAATACTACTCTCTCATCCAAAGGAAGCCAACTCTGAGAGAGTCTTTTGT 2502  
 Db 813 ThrLeuValAsnThrSerSerLeuLysProLysGluAlaGlySerAspGluAsnPheGlu 832  
 QY 2503 TTTAAACACAGAAAACATTACTTTTGAAATGGCACAGATCTTTTCATTGCTATTTCAGCT 2562  
 Db 833 PheLysProGluProPheArgIleGluAsnGlyThrAsnPheTyrIleAlaValGlnAla 852  
 QY 2563 GTTGATAAGTGCATCTGAAATCAGAAATATCCAACTTGCACGAGTATCTTTGTTTAT 2622  
 Db 853 IleAsnGluAlaAsnLeuThrSerGluValSerAsnIleAlaGlnAlaIleLysPheIle 872  
 QY 2623 CCTCCACAGACTCCGCCAGACACACTAGTCTCT 2655  
 Db 873 Pro-----MetProGluAspSerValPro 880



## RESULT 12

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US-09-193-562D-2
; Sequence 2, Application US/09193562D
; Patent No. 6309857
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedict U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0052
; CURRENT APPLICATION NUMBER: US/09/193.562D
; CURRENT FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 2
; LENGTH: 905
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells
US-09-193-562D-2

Alignment Scores:
Pred. No.: 2,92e-194 Length: 905
Score: 2328.00 Matches: 465
Percent Similarity: 69.84% Conservative: 144
Best local Similarity: 53.33% Mismatches: 247
Query Match: 43.27% Indels: 16
DB: 3 Gaps: 11

US-09-049-696-20 (1-2983) x US-09-193-562D-2 (1-905)
QY 46 GTGTTTCATCTTGAATCTTCACTCTTAGAAGGGCCCTGAGTAATCTACTCATTCAGCTG 105
DB 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26
QY 106 AACACATGCTGTAGAGGATTCGCTTCAATCGACCCCAATGTCGCGAGATGAA 165
DB 27 IleAsnAsnGlyTyrAspGlyValIleValIleAlaIleAsnProSerValProGluAspGlu 46
QY 166 ACATCTCATTCACAAATAAGACATGCTGACCCAGGATCTCTGTATCTGTTTGAAGCT 225
DB 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrLeuPheHisAla 66
QY 226 ACAGAAAGCGATTTATTTCAAAATGTCCTCAATTTGATTCCTGAAACATGGAAGACA 285
DB 67 ThrLysArgValTyrPheArgAsnValSerIleLeuIleProMetThrTrpLysSer 86
QY 286 AAGCTGACTATGTGAGACCAAACTTCAGACCTACAAAATGCTGATGTTCTGTTGCT 345
DB 87 LysSerGluTyrPheIleProLysGlnGluSerTyrAspGlnAlaAspValIleValAla 106
QY 346 GAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGACGATGGGCAACTGTGGAGAG 405
DB 107 AsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126
QY 406 AAGGTGAAAGGATCCACTCCTGATTCATTCATTCAGGAAAGAAAGTTAGCTGAATAT 465
DB 127 LysGlyLysTyrIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTyr 146
QY 466 GGACCAAGGTAGGCAATTTGTCATGAGTGGGCTCATCTACGATGGGAGTATTTGAC 525
DB 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTrpGlyIlePheAsp 166
QY 526 GAGTACAAATATGATGAGAAATTTCTACTTATCC---AATGGAAGAAATACAGCAGTAAGA 582
DB 167 GluTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGluAlaThrArg 186
QY 583 TGTTGAGGAGGTATTTACTGGTCAAAATGATGATA---AAGAAGTGTGAGGAGGAGCTGT 639
DB 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206
QY 640 TACACAAAGATGCACATTCATTAAGTAACAGACTCTATGAAAGGATGTGAGTTT 699

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DB 207 IleThrSerLeuCysArgArgAspSerGlnThrGlyLeuTyrGluAlaLysCysThrPhe 226
QY 700 GTTCTCCAATCCCGCCAGACGAGAGGCTTCTATAATGTTTGCACAAATGTTGATCT 759
DB 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246
QY 760 ATAGTTGAATTCGTACAGAACAAACCAACAAAGAGCTCCAAACAGCAAAATCAA 819
DB 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266
QY 820 AAATGCAATCTCCGAGCACATGGAAGTGTATCCGTGATTTCTGAGGACTTTAAAGAAAACC 879
DB 267 MetCysAsnGlyLysSerThrTyrAspValIleMetAsnSerValAspPheGlnAsnThr 286
QY 880 ACTCCTATGACA-----ACACAGCCACCAATCCCACTTCTCATTCGTCAGATTGGA 933
DB 287 SerProMetThrGluMetAsnProThrHisProThrPheSerLeuLysSerLys 306
QY 934 CAAGAATTTGTTTGTAGTCTTGCATAATCTGGAAGCATGGCGACTGGTAACCGCTC 993
DB 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326
QY 994 AATCGACTGAATCAAGCAGGCGACTTTCCTGCTGCTGACAGACAGTTGAGCTGGGTCTCGG 1053
DB 327 PheGlnMetAsnGlnAlaAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346
QY 1054 GTTCGGATGTGACATTTGACAGTGTCTCCCATGTACAAAGTGAACATCATACAGATAAAC 1113
DB 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366
QY 1114 ACTGGCAGTGCACGGGACACACTCGCCAAAGATTACTGCGACAGCTTCAGGGAGGACG 1173
DB 367 AspAspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386
QY 1174 TCCATCTGACGCGGCTTCGATCGGCATT---ACTGTGATTGGAAGAAATATCCAACT 1230
DB 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleHisSerAspGlnSerThr 406
QY 1231 GATGGATCTGAAATGTGCTGCTGACGATGGGGAAGACAACTATAAGTGGGTGCTTT 1290
DB 407 SerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426
QY 1291 AACGAGTCAACAAAGTGTGCTCATCCACAGTCGCTTTGGGGCCCTCTGCGACT 1350
DB 427 GluAspValLysArgSerGlyAlaIleHisThrIleAlaLeuGlyProSerAlaAla 446
QY 1351 CAAGAACTAGAGGAGCTGTCCAAAATGACAGAGGTTTACACATATGTTCTCATGATCAA 1410
DB 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAsp 466
QY 1411 GTTCAGAACAAATGCGCTCATTTGCTTTGGGGCCCTTTTCATCAGGAAATGAGAGCTGTC 1470
DB 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484
QY 1471 TCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAACCTCCAGACAGCCAGCTGGATG 1530
DB 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuIleThrGlyArgLysArgVal 504
QY 1531 AATGGCAGAGTATCGTGGACAGCAGCGTGGGAAAGGACACTTGTCTTATCACCTGG 1590
DB 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValThrTrp 524
QY 1591 ACAACGCGAGCTCCCAAAATCTTCTCTGGGATCCCATGGACAG-----AAGCAAGGT 1644
DB 525 ThrIleGlnLysProGluIleValLeuGlnAspProLysGlyLysTyrLysThrSer 544
QY 1645 GGCTTTGTAGTGGACAAA---AACACCAAAATGCGCTTACCTCCAAATCCCGAGGATGCT 1701
DB 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564
QY 1702 AAGGTTGGCACTTCGAAATACAGTCTG-----CAAGCAAGCTCACAACCTTGACC 1752

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Db 565 GluThrGlyThrTyrThrTyrSerLeuLeuAsnHisAlaSerSerGlnMetLeuThr 584  
QY 1753 CTGACTGTCACGTCGCGTCCCAATGCTACCTGCCTCCCAATACAGTGAATCCAAA 1812  
Db 585 ValThrValThrArgAlaArgSerProThrIleProValIleAlaThrAlaHis 604  
QY 1813 ACGAAACAGGACACCAACAAATCCCGAGCCCTCTGGTAGTTATGCAAAATATTCGCCAA 1872  
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624  
QY 1873 GGAGCTCCCAATCTCAGGCCAGTGTACAGCCCTGATTAATGAATCAGTGAATGAAA 1932  
Db 625 GlyPheLeuProValLeuGlyIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
QY 1933 ACAGTACTCTGGAATCTGATATGAGCAGAGTGTGATGCTACTAAGATACAGGT 1992  
Db 645 GlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyArgAspThrValIysAsnAspGly 664  
QY 1993 GTCTACTCAAGGTATTTACAACTTATGACACGAATGTTAGATACAGTGTAAAGTGGG 2052  
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuIysValHis 684  
QY 2053 GCTCTGGAGAGTTAAGCGACCCAGCGAGAGTGTATACCCAGCAGAGTGGACACTG 2112  
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuLeuAsnLeuArgGlnProGlnAsnLysValLeu 704  
QY 2113 TACATACCTGCTGATTTGAGATGATGAATACAAATGGAATCCACCAAGACCTCAAAAT 2172  
Db 705 TyrValProGlyTyrValGluAsnGlyLysIleIleLeuAsnProProArgProGluVal 724  
QY 2173 AATAAGGATGATTTCAACACAAAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCA 2232  
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744  
QY 2233 TTTGTGGCTCTGATGTC---CCAAATGCTCCCACTACCTGATCTCTCCACCTGGCCAA 2289  
Db 745 PheThrValSerGlyAlaProProProGlyAsnHisProSerValPheProProSerLys 764  
QY 2290 ATCCAGCAGCTGAGGCGGAAATTCACGGGGCAGCTCTCATTAATCTGACTGGACAGCT 2349  
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTyrThrAla 783  
QY 2350 CTTGGGATGATATGACCATGGAACAGCTCACAGTATATCATTCGAATAAGTACAAAGT 2409  
Db 784 ProGlyAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSer 803  
QY 2410 ATTCTTGATCTCAGACAGCAAGTTCAATGAATCTCTCAAGTGAATACTGCTCTCATC 2469  
Db 804 PheMetAspArgGlnGluAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIle 823  
QY 2470 CCAAAGGAAGCAACTCTGAGAGTCTTTTGTGTTTAAACCAAGAAACATTAATTGAA 2529  
Db 824 ProLysGluAlaGlySerLysGluAsnPheGluPheLysProGluHisPheArgValGlu 843  
QY 2530 AATGGCAGAGATCTTTTCAATGCTATCAGGCTGTGTGATGAAGTGCATCTGAAATCAGAA 2589  
Db 844 AsnGlyThrLysPheTyrIleSerValGlnAlaIleAsnGluAlaAsnLeuIleSerGlu 863  
QY 2590 ATATCCAAACATTCAGCAGATCTTTGTTTATTCCT 2625  
Db 864 ValSerHisIleValGlnAlaIleLysPheIlePro 875

## RESULT 13

US-10-055-412B-2  
; Sequence 2, Application US/10055412B  
; Patent No. 6692939  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedicht U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; TITLE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617,0058  
; CURRENT APPLICATION NUMBER: US/10/055,412B  
; CURRENT FILING DATE: 2001-10-29

; PRIOR APPLICATION NUMBER: US/09/193,562  
; PRIOR FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 2  
; LENGTH: 905  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: Lu-ECAM-1 precursor from bovine endothelial cells  
US-10-055-412B-2

## Alignment Scores:

Pred. No.: 2,92e-194 Length: 905  
Score: 2328.00 Matches: 465  
Percent Similarity: 69.84% Conservative: 144  
Best Local Similarity: 53.33% Mismatches: 247  
Query Match: 43.27% Indels: 16  
DB: 4 Gaps: 11

US-09-049-696-20 (1-2983) x US-10-055-412B-2 (1-905)

QY 46 GTGTTTCATCTTGATTTTCACCTTCTAGAGGGGCCCTGAGTAATCTACTCATTACGCTG 105  
Db 8 IleLeuPheLeuThrLeuHisLeuLeuProGly---MetLysSerSerMetValAsnLeu 26  
QY 106 AACCAATGCTATGAAGGCAATGCTGTCATCGCAATCGACCCCAATGTGCCAGAGATGAA 165  
Db 27 IleAsnGlyTyrAspGlyIleValIleAlaIleAsnProSerValProGluAspGlu 46  
QY 166 ACATCATCTCAACAATAAAGACATGCTGACCCAGGATCTCTGTATCTGTTGAAGCT 225  
Db 47 LysLeuIleGluAsnIleLysGluMetValThrGluAlaSerThrTyrLeuPheHisAla 66  
QY 226 ACAGAAAGCGATTTTATTTCAAAATGTTGTCATTTTTCCTGAAACATGGAAGACA 285  
Db 67 ThrLysArgArgValTyrPheArgAsnValSerIleLeuIleProMetThrTriLysSer 86  
QY 286 AAGCTGACTATGTGAGACCAAACTTGAGACCTACAAAATGTGATGTTGTTGCTGCT 345  
Db 87 LysSerGluTyrPheIleProLysGlnGluSerTyrAspGlnAlaAspValIleValAla 106  
QY 346 GAGTCTACTCTCCAGGTAAATGATCAACCTTACACTGAGCAGATCGGCAACTGGAGAG 405  
Db 107 AsnProTyrLeuLysTyrGlyAspAspProTyrThrLeuGlnTyrGlyArgCysGlyGlu 126  
QY 406 AAGGTGAAAGGATCCACCTCCTGATTTTCAGGAAAAAAGTTAGCTGAATAT 465  
Db 127 LysGlyLysTyrIleHisPheThrProAsnPheLeuLeuThrAsnAsnPheHisIleTyr 146  
QY 466 GGACCAACAGTAGGCAATTTGTCATGAGTGGCTCATCTACGATGGGAGTATTTCAC 525  
Db 147 GlySerArgGlyArgValPheValHisGluTrpAlaHisLeuArgTyrGlyIlePheAsp 166  
QY 526 GAGTACATATGATGAGAAATCTACTTATCC---AATGGAAGATACACAGCAGTACA 582  
Db 167 GluTyrAsnValAspGlnProPheTyrIleSerArgLysAsnThrIleGluAlaThrArg 186  
QY 583 TGTTCAGCAGGTATTACTGTACAAATGTAGTA---AAGAAAGTGTGAGGAGGAGCGCTGT 639  
Db 187 CysSerThrHisIleThrGlyIleAsnValValPheLysLysCysProGlyGlySerCys 206  
QY 640 TACACCAAGATGCATTCATTAAGTAAAGTACAGACTCTATGAAAAAGGATGTGAGTTT 699  
Db 207 IleThrSerLeuCysArgArgAspSerGlnThrGlyLeuTyrGluAlaLysCysThrPhe 226  
QY 700 GTTCTCAATCCCGCCAGACGAGAGGCTTCTATAATGTTTGCACAACTGTTGATTCT 759  
Db 227 LeuProLysLysSerGlnThrAlaLysGluSerIleMetPheMetProSerLeuHisSer 246  
QY 760 ATAGTTGAATTTCTCTACAGAACAAACACCAAGAGCTCCAAACCAAGCAAAATCAA 819  
Db 760 ATAGTTGAATTTCTCTACAGAACAAACACCAAGAGCTCCAAACCAAGCAAAATCAA 819

Db 247 ValThrGluPheCysThrGluLysThrHisAsnThrGluAlaProAsnLeuGlnAsnLys 266  
QY 820 AAATGCAATCTCCGAGCACATGGGAAGTGCATCGTGATTTCTGAGGACTTTAAGAAACC 879  
Db 267 MetCysAsnGlyLysSerThrTrpAspValIleMetAsnSerValAspPheGlnAsnThr 286  
QY 880 ACTCCTATGACA-----ACACAGCCACCAATCCACCTTCTCATTTGCTGCAGATTGGA 933  
Db 287 SerProMetThrGluMetAsnProProThrHisProThrPheSerLeuLysSerLys 306  
QY 934 CAAGAATTTGTGTTAGTCTTTAGTCAAAATCTGGAAGCATGGCGACTGGTAACCGCTC 993  
Db 307 GlnArgValValCysLeuValLeuAspLysSerGlySerMetSerAlaGluAspArgLeu 326  
QY 994 AATCGCATGAATCAAGCAGCGCGCTTTCTCTGTCGAGACAGTTGAGCTGGGTCTCTGG 1053  
Db 327 PheGlnMetAsnGlnAlaAlaGluLeuTyrLeuIleGlnValIleGluLysGlySerLeu 346  
QY 1054 GTTGGGATGTTGATTTGACAGTCTGCCCATGTACAAAGTGAACATCATACAGATAAC 1113  
Db 347 ValGlyMetValThrPheAspSerValAlaGluIleGlnAsnHisLeuThrArgIleThr 366  
QY 1114 AGTGGCAGTGCAGGACACACTCGCCAAAGATTACTCGCAGCAGCTTCAGAGGGGACG 1173  
Db 367 AspAsnValTyrGlnLysIleThrAlaLysLeuProGlnValAlaAsnGlyGlyThr 386  
QY 1174 TCCATCTGCACGGGCTTCGATCGGCATT---ACTGTGATTAGAGAAATATCCAACT 1230  
Db 387 SerIleCysArgGlyLeuLysAlaGlyPheGlnAlaIleIleHisSerAspGlnSerThr 406  
QY 1231 GATGATCTGAATTCCTCTGCTGACGATGGGAGACACACTATAGTGGGTGCTTT 1290  
Db 407 SerGlySerGluIleLeuLeuThrAspGlyGluAspAsnGluIleAsnSerCysPhe 426  
QY 1291 AACGAGGTCAACAAAGTGTGCCATCATCCACAGTCGCTTTGGGGCCCTCTGCAGCT 1350  
Db 427 GluAspValLysArgSerGlyAlaIleIleHisThrIleAlaLeuGlyProSerAlaAla 446  
QY 1351 CAAGAATCTAGAGGAGCTCTCCAAATAGCAGAGGTTTACAGACATATGCTTCAGATCAA 1410  
Db 447 LysGluLeuGluThrLysSerAsnMetThrGlyGlyTyrArgPhePheAlaAsnLysAsp 466  
QY 1411 GTTCAGAACATGGCTCATGTGCTTTTGGGGCCCTTTCATCAGGAATGGAGCTGTC 1470  
Db 467 Ile-----ThrGlyLeuThrAsnAlaPheSerArgIleSerSerArgSerGlySerIle 484  
QY 1471 TCTCAGCGCTCATCCAGCTGAGAGTAAGGATTAAACCTCCAGAACAGCAGGTGGATG 1530  
Db 485 ThrGlnGlnAlaIleGlnLeuGluSerLysAlaLeuLysIleThrGlyArgLysArgVal 504  
QY 1531 AATGSCACAGTGCATCGTGACAGACCGGTGGAAAGGACACTTTGTTCTTATCACCTGG 1590  
Db 505 AsnGlyThrValProValAspSerThrValGlyAsnAspThrPhePheValValThrTrp 524  
QY 1591 ACAACGCGCTCCCAATCTTCTCTGGGATCCAGTGGACAG-----AAGCAAGT 1644  
Db 525 ThrIleGlnLysProGluIleValLeuGlnAsnProLysGlyLysTyrLysThrSer 544  
QY 1645 GCCTTTGTAGTGCAAAA---AACACCAAAATGGCTTACTCCAAATCCAGGCAATTGCT 1701  
Db 545 AspPheLysGluAspLysLeuAsnIleArgSerAlaArgLeuGlnIleProGlyIleAla 564  
QY 1702 AAGGTTGGCATTGGAAATACAGTCTG-----CAAGCAGCTCAACACCTTGACC 1752  
Db 565 GluThrGlyThrTrpThrTyrSerLeuLeuAsnAsnHisAlaSerSerGlnMetLeuThr 584  
QY 1753 CTGACTGTACGTCCTCGCTGCTCAATGCTACCTGCTCCAAATACAGTGCATCCCAA 1812  
Db 585 ValThrValThrArgAlaArgSerProThrIleProProValIleAlaThrAlaHis 604  
QY 1813 ACGAACAGGACACAGCAAAATCCCGACGCTCTGTAGTTTATCCAAATATTCGCCAA 1872  
Db 605 MetSerGlnHisThrAlaHisTyrProSerProMetIleValTyrAlaGlnValSerGln 624

QY 1873 GGAGCCTCCCAATTTCTCAGGGCCAGTGTCCACAGCCCTGATTGAATCAGTGAATGGA 1932  
Db 625 GlyPheLeuProValLeuGluIleSerValIleAlaIleIleGluThrGluAspGlyHis 644  
QY 1933 ACAGTTACCTTGGAATCTACTGTAATGGAGCAGGTGCTGCTGCTACTAAGGATGACGGT 1992  
Db 645 GlnValThrLeuGluLeuTrpAsnGlyAlaGlyArgAspThrValLysAsnAspGly 664  
QY 1993 GTTACTCAAGGTATTTCAACATTATGACACGAATGTTAGATACATGTTAAAGTGGG 2052  
Db 665 IleTyrSerArgTyrPheThrAspTyrTyrGlyAsnGlyArgTyrSerLeuLysValHis 684  
QY 2053 GCTCTGGGAGGATTACCGCAGCAGCAGGAGTGTATACCCAGCAGAGTGGAGCACTG 2112  
Db 685 AlaGlnAlaArgAsnAsnThrAlaArgLeuAsnLeuArgGlnProGlnAsnLysValLeu 704  
QY 2113 TACATACCTGGCTGGATTGAGAATGATAAATCAATGGAATCCACCAAGCCTGAAAT 2172  
Db 705 TyrValProGlyTyrValGluAsnGlyLysIleIleLeuAsnProProArgProGluVal 724  
QY 2173 AATAAGATGATGTTCAACACAGCAAGTGTGTTTCAGCAGAACATCTCTCGGAGGCTCA 2232  
Db 725 LysAspAspLeuAlaLysAlaLysIleGluAspPheSerArgLeuThrSerGlyGlySer 744  
QY 2233 TTTCTGGCTTCTGATGTC---CCAAATGCTCCCATCTGATCTCTTCCACCTGGCCAA 2289  
Db 745 PheThrValSerGlyAlaProProGlyAsnHisProSerValPheProProSerLys 764  
QY 2290 ATCACCGACCTGMAAGCGGMAAATTCACGGGGGAGTCTCAATTAATCTGACTTGACAGCT 2349  
Db 765 IleThrAspLeuGluAlaLysPheLys---GluAspTyrIleGlnLeuSerTyrThrAla 783  
QY 2350 CCTGGGATGATTATGACCATGGAAACAGCTCACAAGTATATCATCTGAAATAGTACAAGT 2409  
Db 784 ProGlyAsnValLeuAspLysGlyLysAlaAsnSerTyrIleIleArgIleSerLysSer 803  
QY 2410 ATTCTTGATCTCAGAGCAAGTCTCAATGAATCTCTCAAGTGAATACTTACTGCTCTCATC 2469  
Db 804 PheMetAspArgGlnGluAspPheAspAsnAlaThrLeuValAsnThrSerAsnLeuIle 823  
QY 2470 CCAAGGAAGCAACTCTCTGAGGAAGTCTTTTGTTTAAACCAAGAAAACATTTACTTTTCAA 2529  
Db 824 ProLysGluAlaGlySerLysGluAsnPheGluPheLysProGluHisPheArgValGlu 843  
QY 2530 AATGSCACAGATCTTTTTCATTCGCTTATTCAGGCTGTTGATAAGTGCATCTGAAATCAGAA 2589  
Db 844 AsnGlyThrLysPheTyrIleSerValGlnAlaIleAsnGluAlaAsnLeuIleSerGlu 863  
QY 2590 ATATCCACATTTGCACGAGTATCTTTGTTTATTCCT 2625  
Db 864 ValSerHisIleValGlnAlaIleLysPheIlePro 875

## RESULT 14

US-09-193-562D-34  
; Sequence 34, Application US/09193562D  
; Patent No. 6309857  
; GENERAL INFORMATION:  
; APPLICANT: Pauli, Benedict U.  
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium  
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules  
; FILE REFERENCE: 18617.0052  
; CURRENT APPLICATION NUMBER: US/09/193,562D  
; CURRENT FILING DATE: 1998-11-17  
; PRIOR APPLICATION NUMBER: US/60/065,922  
; PRIOR FILING DATE: 1997-11-17  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 34  
; LENGTH: 902  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-193-562D-34

## Alignment Scores:

Pred. No.: 5,89e-194 Length: 902  
 Score: 2324.50 Matches: 479  
 Percent Similarity: 67.90% Conservative: 143  
 Best Local Similarity: 52.29% Mismatches: 257  
 Query Match: 43.21% Indels: 37  
 DB: 3 Gaps: 15

US-09-049-696-20 (1-2983) x US-09-193-562D-34 (1-902)

QY 25 ATGGGGCCATTTAAAGAGTCTCTGTTCATCTTCACTTCTTCAAGGGGCCCTG 84  
 Db 1 MetValProGlyLeuGlnValLeuLeuPheLeuThrLeuHisLeuLeuGlnAsnThr--- 19  
 QY 85 AGTAATCTCACTCATTCAGCTGAACAAATGCTATGAAGGCAATGCTGCTCAATCGAC 144  
 Db 20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValLeuAlaLeuAsn 39  
 QY 145 CCAATGTGCGAAGATGAACATCTATTCAACAAATAAGGACATGCTGACCCAGGCA 204  
 Db 40 ProSerValProGluAspGluArgLeuLeuProSerLeuLysGluMetValThrGlnAla 59  
 QY 205 TCTCTGTATCTGTTGAAGCTACAGGAAGCGATTTTATTTCAAAAAGTTCCTCATTTG 264  
 Db 60 SerThrTyrLeuPheGluAlaSerGlnGlyArgValTyrPheArgAsnLeuSerLeu 79  
 QY 265 ATTCTGAAACATGAAGACAAAGCTGCTATGTGAGACCAAACTTGAGACCTACAA 324  
 Db 80 ValProMetThrTrpLysSerLysSerGlnTyrLeuMetProLysArgGluSerTyrAsp 99  
 QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384  
 Db 100 LysAlaAspValLeuValAlaAspProHisLeuGlnHisGlyAspAspProTyrThrLeu 119  
 QY 385 CAGATGGCCAACTGTGGAGAGAGGCTGAAGGATCCACTCTCTGATTTCAATTGCA 444  
 Db 120 GlnTyrGlyGlnCysGlyAspArgGlyGlnTyrHisPheThrProAsnPheLeuLeu 139  
 QY 445 GGAATAAAGTTAGCTGAATATGACCAACAGTAGGCTATTTGCTCATGAGTGGGCTCAT 504  
 Db 140 ThrAspAsnLeuArgLeuTyrGlyProArgGlyArgValPheValHisGluTrpAlaHis 159  
 QY 505 CTACATGGGAGATTTGACGATPACAAATATGATGAGAAATTTCTACTTATCC---AAT 561  
 Db 160 LeuArgTrpGlyValPheAspGluTyrAsnValAspArgSerProTyrIleSerArgLys 179  
 QY 562 GGAAGAATACAGCAGTAAGATGTTACAGAGTATTACTGTACAAATGATGTAAGAG 621  
 Db 180 AsnThrIleGluAlaThrArgCysSerAlaSerIleThrGlyLysValValHisGlu 199  
 QY 622 TGTGAGGAGGAGCTGTTTACCAAAAGATGCAATTCATTAATAAGTAACAGGACTCTAT 681  
 Db 200 CysGlnArgGlySerCysValThrArgAlaCysArgArgAspSerLysThrArgLeuTyr 219  
 QY 682 GAAAAGGATGTGAGTTGTTCTCCATCCCGCAGAGGAGAGGCTTCTATATGTTT 741  
 Db 220 GluProLysCysThrPheIleProAspLysIleGlnThrAlaGlyAlaSerIleMetPhe 239  
 QY 742 GCACAAATGTGATTTCTATAGTTGAATCTGTACAGACAAACCAACCAAGAGCT 801  
 Db 240 MetGlnAsnLeuAsnSerValValGluPheCysThrGluAsnAsnHisAsnAlaGluAla 259  
 QY 802 CCAACAAAGCAAAATCAAAATGCAATCTCCGAGACATGGGAAGTATGATCCGATGTTCT 861  
 Db 260 ProAsnLeuGlnAsnLysMetCysAsnArgSerThrTrpAspValIleLysThrSer 279  
 QY 862 GAGACATTTAAGAAAACCATCTCTATG-----ACAACAGCCCAACCAATCCACCTTC 915  
 Db 280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299  
 QY 916 TCATTGCTGAGATTGGCAAAAGATTTGTTGTTTGTCTCTGCAAAATCTGAGAGCATG 975  
 Db 300 TyrLeuLeuLysSerArgArgArgValValCysLeuValLeuAspLysSerGlySerMet 319

QY 976 GCGACTGTAAACGGCTCAATCGACTGAATCAAGCAGCGCCAGCTTTTCTCTGTCGACACA 1035  
 Db 320 AspLysGluAspArgLeuLeuArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIle 339  
 QY 1036 GTTGAGCTGGGCTCTGGGATGGTGAATTTGACATTGTGACAGTGTGCTCCCATGTACAAAGT 1095  
 Db 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359  
 QY 1096 GAACTATACAGATAAACAGTGGCAGTGCACAGGACACACTGCCCAAAAGATTACTGTCA 1155  
 Db 360 TyrLeuLeuLysIleThrSerSerSerAspTyrGlnLysIleThrAlaAsnLeuProGln 379  
 QY 1156 GCAGCTTCAGAGGAGCAGCTCCATCTGACGGCGCTTCGATCGCATTTACTGTGATTAGG 1215  
 Db 380 GlnAlaSerGlyGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399  
 QY 1216 AAGAAA---TATCCAACTGATGATCTGAATTTGTCTGCTGACGGATGGGGAAGACAC 1272  
 Db 400 SerSerAspGlnSerThrSerGlySerGluLeuValLeuLeuThrAspGlyGluAspAsn 419  
 QY 1273 ACTATAAGTGGTGGTCTTAAACGAGGTCAAAAGTGGTGGCATCATCCACACAGTCGCT 1332  
 Db 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleHisThrIleAla 439  
 QY 1333 TTGGGGCCCTCTGACAGCTCAAGAACTAGAGAGCTGTCCAAATACAGGAGGTTTACAG 1392  
 Db 440 LeuGlyProSerArgAlaArgLeuLeuThrLeuSerAspMetThrGlyGlyLeuArg 459  
 QY 1393 ACATATGCTTCAGATCAAGTTTCAGAACTGGCTCATTTGATGCTTTTGGGCCCCCTTCA 1452  
 Db 460 PheTyrAlaAsnLysAspLeu-----AsnSerLeuIleAspAlaPheSerArgIleSer 477  
 QY 1453 TCAGAAATGAGCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAGGATTAAACCCCTC 1512  
 Db 478 SerThrSerGlySerValSerGlnAlaLeuGlnLeuGluSerLysAlaPheAspVal 497  
 QY 1513 CAGAACACCCAGTGGATGAATGGCACAGTGTCTGGACAGCACCGTGGGAAAGGACACT 1572  
 Db 498 ArgAlaGlyAlaTrpIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspThr 517  
 QY 1573 TTGTTTCTTATCACTGGACAAACGACGCTCCCAAACTCTCTCTGCGATCCAGTGTGGA 1632  
 Db 518 PhePheValIleThrTrpMetValLysProGluIleIleLeuGlnAspProLysGly 537  
 QY 1633 CAGAAG-----CAAGTGGCTTTGTAGTGACAAA---AACACCAAAATGGCTTACCTC 1683  
 Db 538 LysLysTyrThrThrSerAspPheGlnAspAspLysLeuAsnIleArgSerAlaArgLeu 557  
 QY 1684 CAATCCAGCATTTGTAAGTTGGCACTTGGAAATACAGTCTGCAAGCAAGC---TCA 1740  
 Db 558 GlnIleProGlyThrAlaGluThrGlyThrTrpThrTyrSerTyrThrGlyThrLysSer 577  
 QY 1741 CAAACCTTGACCTTGACTGTCACTGCGTCCGTCCTCAATGTACCTGCTCCCAATTACA 1800  
 Db 578 GlnLeuIleThrMetThrValThrThrArgAlaArgSerProThrMetGluProLeuLeu 597  
 QY 1801 GTGACTTCCAAAACGAAACAGGACACCAAGCAATTCGCCAGCCCTCTGGTAGTTTATGCA 1860  
 Db 598 GlyTyrCysTyrMetSerGlnSerThrAlaGlnTyrProSerArgMetIleValTyrAla 617  
 QY 1861 AATATTGCCCAAGGAGCTCCCAATTCAGGCCAGTGTCTCAGCCCTGTGATGTAATCA 1920  
 Db 618 ArgValSerGlnGlyPheLeuProValLeuGlyAlaAsnValThrAlaLeuIleGluAla 637  
 QY 1921 GTGAATGAAAAACAGTTACTTGGAACTACTGGATAATCGACAGAGTGTGTGATGCTACT 1980  
 Db 638 GluHisGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAspIleVal 657  
 QY 1981 AAGATGACGGTCTTACTCAAGGATTTTCAACTTTCACACCTTACACAGGAATGTGATACAGT 2040  
 Db 658 LysAsnAspGlyIleTyrThrArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSer 677

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QY 2041 GTAAAGTCGGGCTCTGGAGGAGTTAAACGACGCCAGCGAGAGTG-----ATA 2091
Db 678 LeuLysValArg-----ValGlnAlaGlnArgAsnLysThrArgLeuSerLeu 693
QY 2092 CCCAGCAGAGTGAGCAGCTGTACATACCTCGCTGGATTGAGATGATGAATACAATGG 2151
Db 694 ArgGlnLysAsnLysSerLeuTyrlleProGlyTyrValGluAsnGlyLyslleValLeu 713
QY 2152 AATCCACAGACTGAAATTAATPAGATGATGTTCAACAACAAGCAAGTGTTGTCAGC 2211
Db 714 AsnProProArgProAspValGlnGluGluAlaileGluAlaThrValGluAspPheAsn 733
QY 2212 AGACATCCTCGGAGCTCATTTGCTGCTGATGTCCTCAATGCTCCCATACCTGAT 2271
Db 734 ArgValThrSerGlyGlySerPheThrValSerGlyAlaPro-----ProAsp 749
QY 2272 -----CTCTCCCACTGGCCAAATCAACCGACCTGAAGCGGAAATTCAC 2316
Db 750 GlyAspHisAlaArgValPheProProSerLysValThrAspLeuGluAlaGluPheile 769
QY 2317 GGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTGGGGATGATTATGACCATGGAACA 2376
Db 770 --GlyAspTyrlleHisLeuThrTriPThrAlaProGlyLysValLeuAspAsnGlyArg 788
QY 2377 GCTCACAAGTATATCATCGAATBAATACAGATATTTCTTGATCTCAGAGACAAGTTCAAT 2436
Db 789 AlaHisArgTyrlleArgMetSerGlnHisProLeuAspLeuGlnGluAspPheAsn 808
QY 2437 GAATCTCTCAAGTAATCTACTGCTCTCATCCCAAGGAAGCAACTCTGGAAGATC 2496
Db 809 AsnAlaThrLeuValAsnAlaSerSerLeuileProLysGluAlaGlySerLysGluAla 828
QY 2497 TTTTGTGTTAAACGAGAAAACATTACTTTTGAATGCGCAGATCTTTTCTGCTATT 2556
Db 829 PheLysPheLysProGluThrPheLyslleAlaAsnGlylleGlnLeuTyrlleAlaile 848
QY 2557 CAGGCTGTGTAGTTCGATCTGAAATCAGAAATATCAACATTCAGCAGATCTTTG 2616
Db 849 GlnAlaAspAsnGluAlaSerLeuThrSerGluValSerAsnileAla----- 864
QY 2617 TTTATTCTCCACAGACTCCGCCAGACACCTAGTCTGATGAACGCTGCTGCTCTTGT 2676
Db 865 -----GlnAlaValLysLeuThrSerLeuGluAspSerlleSerAlaLeuGly 880
QY 2677 CTAATATTTCAT--ATCAACAGCAGCACTTCCTGCGATTCACATTTA 2721
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RESULT 15
US-10-055-412B-34
; Sequence 34, Application US/10055412B
; Patent No. 6692939
; GENERAL INFORMATION:
; APPLICANT: Pauli, Benedicht U.
; TITLE OF INVENTION: Nucleotide Sequences Encoding Mammalian Calcium
; FILE OF INVENTION: Activated Chloride Channel-Adhesion Molecules
; FILE REFERENCE: 18617.0058
; CURRENT APPLICATION NUMBER: US/10-055,412B
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: US/09/193,562
; PRIOR FILING DATE: 1998-11-17
; PRIOR APPLICATION NUMBER: US/60/065,922
; PRIOR FILING DATE: 1997-11-17
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 34
; LENGTH: 902
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-055-412B-34

Alignment Scores:
Pred. No.: 5,89e-194 Length: 902
Score: 2324.50 Matches: 479

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Percent Similarity: 67.90% Conservative: 143
Best Local Similarity: 52.29% Mismatches: 257
Query Match: 43.21% Indels: 37
DB: 4 Gaps: 15

US-09-049-696-20 (1-2983) x US-10-055-412B-34 (1-902)

QY 25 ATGGGGCCATTAAAGAGTTCTGTGTTTCATCTTGTGTTCTTACCTCTTAGAAGGGGCCCTG 84
Db 1 MetValProGlyLeuGlnValLeuPheLeuPheLeuThrLeuHisLeuLeuGlnAsnThr--- 19
QY 85 AGTAATTCATCTAGCTGACCAACAATGGCTTATGAAGGCATTGCTGTTCGAATCGAC 144
Db 20 GluSerSerMetValHisLeuAsnSerAsnGlyTyrGluGlyValValIleAlaileAsn 39
QY 145 CCCAATGTGCCAGAAAGATGAACACTCATTCACAACAATAAGGACATGGTGACCGAGCA 204
Db 40 ProSerValProGluAspGluArgLeuIleProSerlleLysGluMetValThrGlnAla 59
QY 205 TCTCTGTATCTGTTGAAGCTACAGGAAAGCGATTATTTTCAAAAATGTTGCCATTTTG 264
Db 60 SerThrTyrllePheGluAlaSerGlnGlyArgValTyrllePheArgAsnilleSerlleLeu 79
QY 265 ATTCTCTGAAACATCGAAGACAAAGGCTCACTATGTGAGACCCAAACCTTGAGACCTTACAA 324
Db 80 ValProMetThrTrpLysSerLysSerGluTyrlleLeuMetProLysArgGluSerTyrlle 99
QY 325 AATCTGATGTTCTGTTGCTGAGTCTACTCTCCTCAGGTAATGATGAACCCCTACACTGAG 384
Db 100 LysAlaAspValIleValAlaAspProHisLeuGlnHisGlyAspAspProTyrlleThrLeu 119
QY 385 CAGATGGCACTCTGGAGAGAGGGTGAGAGGATCCACCTCACTCCTGATTTCATTGCA 444
Db 120 GlnTyrlleGlnCysGlyAspArgGlyGlnTyrlleHisPheThrProAsnPheLeuLeu 139
QY 445 GGAAGAAAGTGTAGCTGAATATGACCAACCAAGGTAGGCGATTGTCCTAGTGGGCTCAT 504
Db 140 ThrAspAsnLeuArglleTyrlleTyrlleProArgGlyArgValPheValHisGluTrpAlaHis 159
QY 505 CTACGATGGGAGTATTTGACGAGTACATAATGATGAGAAATCTTACTTATCC---AAT 561
Db 160 LeuArgTrpGlyValPheAspGluTyrlleAsnValAspArgSerProTyrlleSerArgLys 179
QY 562 GGAAGATACAGCACTAAGATGTTACGACAGGATTTACTGTCACAAATGATGTAAGAGAG 621
Db 180 AsnThrilleGluAlaThrArgCysSerAlaSerlleThrGlyLysValValHisGlu 199
QY 622 TGTCAAGGAGGAGCTGTTTACCAACCAAGATGCACATTCAATAAAGTAACAGGACTCTAT 681
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QY 682 GAAAAGGATGTGATTTGTTCTCCAATCCCGCAGACGAGAGAGGCTTCTATATGTTT 741
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QY 862 GAGGACTTTAAGAAAACCACTCTTATG-----ACACACAGCCCAAAATCCCACTTC 915
Db 280 AlaAspPheGlnAsnAlaProProMetArgGlyThrGluAlaProProProThrPhe 299
QY 916 TCATTGTCGAGATGGACAAGAAATCTGTGTTTAGTCTTGTGCAAAATCTGGAAGCATG 975
Db 300 TyrlleLeuLysSerArgArgValValCysLeuValLeuAspLysSerGlySerMet 319
QY 976 GCGACTGTGTAACCGCTCAATCTGACTGAATCAAGCAGGCCAGCTTTTCTCTGTCGAGACA 1035

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Db 320 AspLysGluAspArgLeuLeuArgMetAsnGlnAlaAlaGluLeuTyrLeuThrGlnIle 339  
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Db 340 ValGluLysGluSerMetValGlyLeuValThrPheAspSerAlaAlaHisIleGlnAsn 359  
QY 1096 GAACCTATACAGATAAAGTGGCAGTGGCAGGACACACTCGCCAAAAGATTACCTGCA 1155  
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QY 1156 GCAGCTTCAGGAGGACGCTCCATCTGCACGGGCTTCGATCGGCATTAATCTGTGATTAGG 1215  
Db 380 GlnAlaSerGlyGlyThrSerIleCysHisGlyLeuGlnAlaGlyPheGlnAlaIleThr 399  
QY 1216 AAGAAA---TATCCAACTGATGATCTGAAATTTGCTGCTCACGATGGGGAAGACAC 1272  
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Db 420 GlyIleArgSerCysPheGluAlaValSerArgSerGlyAlaIleHisThrIleAla 439  
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QY 1393 ACATATGCTTCAGATCAAGTTTCAGAACAAATGCCCTCATTTGATGCTTTTGGGCCCTTCA 1452  
Db 460 PheTyrAlaAsnLysAspLeu-----AsnSerLeuIleAspAlaPheSerArgIleSer 477  
QY 1453 TCAGAAATGAGGTGCTCTCAGCGCTCCATCCAGCTTGAGGTAAAGGATTAACCCCTC 1512  
Db 478 SerThrSerGlySerValSerGlnGlnAlaLeuGlnLeuGluSerLysAlaPheAspVal 497  
QY 1513 CAGAACCCAGTGCATGAATGGCAGCAGTATCGTGGCAGACACCGTGGGAAAGACACT 1572  
Db 498 ArgAlaGlyAlaTrpIleAsnGlyThrValProLeuAspSerThrValGlyAsnAspThr 517  
QY 1573 TTGTTTCTTATCAGTGGCAACAGCGCTCCCAAAATCTTCTCTGGGATCCCAAGTGA 1632  
Db 518 PhePheValIleThrTrpMetValLysProGluIleIleLeuGlnAspProLysGly 537  
QY 1633 CAGAAAG-----CAAGTGGCTTTGTAGTGACAAA---AACACAAAATGGCTTACCTC 1683  
Db 538 LysIlyTyrThrThrSerAspPheGlnAspLysLeuAsnIleArgSerAlaArgLeu 557  
QY 1684 CAATCCAGCATGCTTAAGTTGGCAGTCTGGAATACAGTCTCCAAAGACG---TCA 1740  
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QY 1741 CAACCTTGACCTGACTGTGACGTCCTCGGTCCCAATGCTACCTGCCTCCCAATTACA 1800  
Db 578 GlnLeuIleThrMetThrValThrThrArgAlaArgSerProThrMetGluProLeuLeu 597  
QY 1801 GTGACTTCCAAAACGACAGGACACGACAAATTCGCCACCTCTCGTAGTTTATGCA 1860  
Db 598 GlyTyrCysTyrMetSerGlnSerThrAlaGlnTyrProSerArgMetIleValTyrAla 617  
QY 1861 AATATTCGCGAGGAGCTCCCAATCTCAGGCGCAGTGTACAGCCCTGATTGAATCA 1920  
Db 618 ArgValSerGlnGlyPheLeuProValLeuGlyAlaAsnValThrAlaLeuIleGluAla 637  
QY 1921 GTGAATGAAAACAGATTACCTCGAATACTGGATTAATGGAGAGGTGCTGATGCTACT 1980  
Db 638 GluHisGlyHisGlnValThrLeuGluLeuTrpAspAsnGlyAlaGlyAlaAspIleVal 657  
QY 1981 AAGGATCAGGTGTCTACTCAAGTATTTCACACTTATGACACGAATGGTAGATACAGT 2040  
Db 658 LysAsnAspGlyIleTyrThrArgTyrPheThrAspTyrHisGlyAsnGlyArgTyrSer 677  
QY 2041 GTAAAGTGGCGGCTCTGGGAGGAGTTAAACCCAGCCAGGAGAGTG-----ATA 2091  
Db 678 LeuLysValArg-----ValGlnAlaGlnArgAsnLysThrArgLeuSerLeu 693

QY 2092 CCCACGACAGTGGAGCACTGTACATACCTGCTGGATGGAATGACATGAAATACAAATGG 2151  
Db 694 ArgGlnLysAsnLysSerLeuTyrIleProGlyTyrValGluAsnGlyLysIleValLeu 713  
QY 2152 AATCCACCAAGACCTGAAATTAATAGGATGATGTTCAACCAAGCAAGTGTGTTTCAGC 2211  
Db 714 AsnProProArgProAspValGlnGluAlaIleGluAlaThrValGluAspPheAsn 733  
QY 2212 AGAACATCTCGGAGGCTCATTTGTGGCTTCGTGATGTCCTCCAAATGCTCCCATCCTGAT 2271  
Db 734 ArgValThrSerGlyGlySerPheThrValSerGlyAlaPro-----ProAsp 749  
QY 2272 -----CTCTTCCACCTGGCCAAATCACCAGCCTGAAGCGGGAATTCAC 2316  
Db 750 GlyAspHisAlaArgValPheProSerLysValThrAspLeuGluAlaGluPheIle 769  
QY 2317 GGGGCGAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTATGACCATGGAACA 2376  
Db 770 ---GlyAspTyrIleHisLeuThrTrpThrAlaProGlyLysValLeuAspAsnGlyArg 788  
QY 2377 GCTCAAGTATATCATTCGAATAAGTACAAGTATTCTTGATCTCAGACACAAGTTCAAT 2436  
Db 789 AlaHisArgTyrIleIleArgMetSerGlnHisProLeuAspLeuGlnGluAspPheAsn 808  
QY 2437 GAATCTCTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCAACTCTGAGGAAGTC 2496  
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QY 2497 TTTTGTGTTTAAACACAGAAAACATTACTTTTGAATAATGGCACAGATCTTTTCATCTCTATT 2556  
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QY 2557 CAGGCTGTTGATAAGTGCATCTGAAATCAGAAATATCCAAATATCCAACTGACGAGTATCTTTG 2616  
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QY 2617 TTTATCTCTCACAGACTCCCGCAGACACTAGTCTCTGATGAACCGTCTGCTCCTTGT 2676  
Db 865 -----GlnAlaValLysLeuThrSerLeuGluAspSerIleSerAlaLeuGly 880  
QY 2677 CCTAATATTCAT---ATCAACAGCACCATTCCTGCGCATTCACATTTTA 2721  
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Search completed: October 15, 2004, 16:21:14  
Job time : 162.013 secs

GenCore version 5.1.6  
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OM nucleic - protein search, using frame\_plus\_n2p model

Run on: October 15, 2004, 16:09:40 ; Search time 305.918 Seconds  
(without alignments)  
6305.350 Million cell updates/sec

Title: US-09-049-696-20

Perfect score: 5380

Sequence: 1 GAATCAGGAGATGTAC.....AAATCTAAACAACCTGGGTA 2983

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Ygapop 10.0 , Ygapext 0.5	
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Delop 6.0 , Delext 7.0	

Searched: 1360919 seqs, 323318874 residues

Total number of hits satisfying chosen parameters: 2721838

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	ID	Description
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1	4802	89.3	925	9	US-09-764-868-635	Sequence 635, App
2	4802	89.3	925	14	US-10-106-698-6248	Sequence 6248, App
3	4759	88.5	914	9	US-09-823-356-8	Sequence 8, Appl
4	4759	88.5	914	9	US-09-823-356-8	Sequence 192, App
5	4759	88.5	914	11	US-09-833-245-2054	Sequence 2054, App
6	4759	88.5	914	14	US-10-235-994-26	Sequence 26, Appl
7	4759	88.5	914	14	US-10-060-255-42	Sequence 42, Appl
8	4756	88.4	914	9	US-09-922-217-1066	Sequence 1066, App
9	4756	88.4	914	9	US-09-833-263-1066	Sequence 1066, App
10	4756	88.4	914	13	US-10-025-380-1066	Sequence 6, Appl
11	4754	88.4	914	14	US-10-270-595-6	Sequence 28, Appl
12	4753	88.3	914	14	US-10-055-412B-28	Sequence 133, App
13	4751	88.3	914	14	US-10-369-214-133	Sequence 6388, App
14	4476	83.2	869	14	US-10-106-698-6388	Sequence 2, Appl
15	3656.5	68.0	913	14	US-10-270-595-2	Sequence 132, App
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20	2879.5	53.5	919	9	US-09-989-727-379	Sequence 379, App
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22	2879.5	53.5	919	9	US-09-989-732-379	Sequence 379, App
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37	2879.5	53.5	919	10	US-09-989-734-379	Sequence 379, App
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44	2879.5	53.5	919	10	US-09-997-666-379	Sequence 379, App
45	2879.5	53.5	919	10	US-09-990-438-379	Sequence 379, App

#### ALIGNMENTS

RESULT 1  
US-09-764-868-635  
; Sequence 635, Application US/09764868  
; Patent No. US20020168711A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PT32  
; CURRENT APPLICATION NUMBER: US/09/764,868  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1510  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 635  
; LENGTH: 925  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-868-635

Alignment Scores:	0	Length:	925
Pred. No.:	4802.00	Matches:	922
Score:	100.00%	Conservative:	0



Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 89.26% Indels: 0  
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 DB 24 LeuHisLeuLeuGluGlyAlaLeuSerAsnSerLeuIleGlnLeuAsnAsnGlyTyr 43

QY 121 GAAGCATTTGCTGCTTCAATCGACCCCAATGTGCCAAGAGATGAACACATCATTCACAA 180  
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QY 181 ATAAAGGACATGGTGACCCAGGCATCTCTGTATCTCTTTGAAGCTACAGGAAAGCGATT 240  
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QY 241 TATTTCAAAATTTGTCCTATTTGATTCCTGAAACATGGAAGCAAAAGGCTGACTATGTG 300  
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QY 301 AGACCAAACTTGACACCTTACAAAATGCTGATGTTCTGTGCTGAGTCTACTCTCCA 360  
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QY 361 GGTAAATGATGAACCTTACACTGAGCAGATGGGCACTGTGGAGAGAGGGTGAAGGATC 420  
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QY 421 CACCTCACTCTGATTTCATTCAGGAAATAAGTTAGCTGAATATGACCAACAGGTAGG 480  
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QY 601 GGTACAAATGTAGTAAAGAGTGTGAGGAGCAGCTGTTACACAAAGATGCACATTC 660  
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QY 721 GAGAGGCTTCTATATGTTTGCAACAACATGTTGATTTCTATAGTTGAATTTGTGACAGAA 780  
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QY 2221 TCGGGAGGCTCATTTGGCTTCTGATGTCCTGATGTCCTCCATATCACTGATCTCTCCCA 2280
Db 744 SerGlyGlySerPheValAlaSerAspValProAsnAlaProIleProAspLeuPhePro 763
QY 2281 CTGGCCCAATCACCCACCTGAAGCGGAAATTCACGGGGAGTCTCTAATTAATCTGACT 2340
Db 764 ProGlyGlnIleThrAspLeuLysAlaGluIleHisGlySerLeuIleAsnLeuThr 783
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QY 2761 ATAGCC 2766
Db 924 IleAla 925

RESULT 2
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; Sequence 6248, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6248
; LENGTH: 925
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-106-698-6248
Alignment Scores:
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Best Local Similarity: 100.00% Mismatches: 0
Query Match: 89.26% Indels: 0
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QY 301 AGACCAAACTTGAGACCTTACAAAATGCTGATGTTGTTGTTGCTGAGTCTACTCTCCA 360
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QY 361 GGTATATGATGAACCCCTACACTGAGCAGATGGCAACTGTGGAGAGAAGGGTGAAGGATC 420
Db 124 GlyAsnAspGluProTyrThrGluGlnMetGlyAsnCysGlyGluLysGlyGluArgIle 143
QY 421 CACCTCACTCTCTGATTCATTCGACAGAAAGTGTAGCTGAATATGACCAACAGTAGG 480
Db 144 HisLeuThrProAspPheIleAlaGlyLysLysLeuAlaGluTyrGlyProGlnGlyArg 163
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QY 841 TGGGAAGTATCCGCTGATTCGTGAGACCTTAAAGAAACCACTCTATCACAACACAGCCA 900
Db 284 TrpGluValIleArgAspSerGluAspPheLysThrThrProMetThrThrGlnPro 303
QY 901 CCAATCCACCTTCTCATTTGCTGAGATTCGACAAAGAAATGTTGTTTGTAGTCTCTTAC 960
Db 304 ProAsnProThrPheSerLeuLeuGlnIleGlyGlnArgIleValCysLeuValLeuAsp 323
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QY 961 AAATCTGGAGCATGGCACTGGTAACCGCTCAATCGACTGAATCAACGAGCCAGCTT 1020  
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QY 324 LysSerGlySerMetAlaThrGlyAsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeu 343  
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QY 1021 TTCTCTGCTCAGACAGTTCAGCTGGGTCTCTGGTGGGATGGTGCATTTTCACAGTGTCT 1080  
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QY 344 PheLeuLeuGlnThrValGluLeuGlySerTrpValGlyMetValThrPheAspSerAla 363  
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QY 1081 GCCCATGTCAAAAGTAATCATACAGATAAAGTGGCAGTGACAGGACACACTCGCC 1140  
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QY 1141 AAAAGATTACCTCGACAGCTTCAGGAGGAGCTCCATCTCGAGCGGGCTTCGATCGGCA 1200  
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QY 384 LysArgLeuProAlaAlaAlaSerGlyGlyThrSerIleCysSerGlyLeuArgSerAla 403  
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QY 1261 GGGAGAGACAACTATAAGTGGTGGCTTTAAGAGGTCAACAAAGTGGTGCATCATC 1320  
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QY 2161 AGACCTGAAATTAATAAGGATGATCTTCAACAAGCAAGTGTGTTTCAGCAGACATCC 2220  
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QY 2341 TGGACAGCTCCCTGGGGATGATTATGACCATGGAACAGCTCACAAATATATCATTCGAATA 2400  
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QY 784 TrpThrAlaProGlyAspPyrAspHisGlyThrAlaHisLysTyrIleIleArgIle 803  
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QY 924 IleAla 925  
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## RESULT 3

US-09-823-356-8  
; Sequence 8, Application US/09823356  
; Patent No. US2001002509A1  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Guesler, Karl J.  
; APPLICANT: Kaser, Matthew R.  
; APPLICANT: Baughn, Mariah R.  
; APPLICANT: Shah, Purvi  
; TITLE OF INVENTION: HUMAN MEMBRANE SPANNING PROTEINS  
; FILE REFERENCE: PF-0489-1 CON  
; CURRENT APPLICATION NUMBER: US/09/823,356  
; CURRENT FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: 09/039,307  
; PRIOR FILING DATE: 1998 March 13  
; NUMBER OF SEQ ID NOS: 34

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; SOFTWARE: PERL Program
; SEQ ID NO 8
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20010025098A1 1737775
US-09-823-356-8

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Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 88.46% Indels: 0
DB: 9 Gaps: 0

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US-09-049-696-20 (1-2983) x US-09-823-356-8 (1-914)

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QY 85 AGTAATTCACTCATTGAGCTGAACAACAATGGCTATGAAGGCATTGCTGCTTGCATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCATATGCCAGAGATGAACACATCTATTCAACAATAAAGACATGTGTACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTACTCTTTGAAGCTACAGGAAGCGATTTATTTCAAAAATGTTGCCATTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGAGACCTTACAAA 324
Db 81 IleProGluThrTyrLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGAGAGAGGTGAAGGATCCACTCACTCTCTGATTTCTATGCA 444
Db 121 GlnMetGlyAsnCysGlyGluLysGlyIleGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAGCTTAGCTGAATATGACCAACAGGTAGGGCATTTGTCCATCAGTGGGCTCAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluThrPalaHis 160
QY 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATTCCTATTATCCAAATGGA 564
Db 161 LeuArgTyrGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180
QY 565 AGAATACAGCAGTAAAGTTTCAGCAGGTATTACTGTTACAAATGATAGTAAGAAGTGT 624
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QY 625 CAGGGAGGCAGCTGTGTACACCAAAAGATGCACATTCATTAAGTAAACAGGACTTATGAA 684
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Db 281 AspPheLysLysThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300
QY 925 CAGATTGGACAAAGAAATGTGTGTAGTCTTGTGCAAAATCTGGAAGCATGGCGACTGTT 984
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
QY 985 AACCGCTCAATCGACTGAATCAAGCAGCCAGCTTTTCTCTCTGTCGACAGTGTAGCTG 1044
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340
QY 1045 GGGTCTCTGGTTGGGATGTGACATTTGACAGTGTGCCCATGTACAAAGTGAACACTCAT 1104
Db 341 GlySerTyrValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAAACAGTGGCAGTGCACAGGACACACTCGCCAAAAGATTACCTGCAGCAGTTCA 1164
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QY 1165 GGAGGACGCTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224
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QY 1285 TCGTTTAAAGAGGTCAAAACAAGTGGTCCATCATCCACAGTGCCTTTGGGGCCCTCT 1344
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Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAACGCCAGCCAGAGAGTGATACCCAGCAGAGTGGAGCTGTACATACCTGGC 2124
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QY 2125 TCGATTGAGAAATGAAATACATGGAATCCAGTCCACCAAGACCTGAAATTAATAGGATGAT 2184
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QY 2185 GTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCT 2244
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QY 2245 GATGTCCTCCAAATGCTCCCATACGTATCTTCCACCTGGCCAAATCACCGACCTGAAG 2304
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QY 2485 TCTGAGGAAGTCTTTTGTGTTTAAACCAGAAACATTAATCTTGAATGCGCAGATCTT 2544
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QY 2665 TCTGCTCTTGTCTTAATATTATATCAACAGACCACTTCTGGCATTCCACATTTTAAAA 2724
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## RESULT 4

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US-09-981-353-192
; Sequence 192, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Laeak, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 192
; LENGTH: 914

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 1737775CD1
US-09-981-353-192

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Alignment Scores:
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Score: 4759.00 Matches: 914
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 88.46% Indels: 0
DB: 9 Gaps: 0

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US-09-049-696-20 (1-2983) x US-09-981-353-192 (1-914)

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QY 85 AGTAATTCACTCATTCACTGAAACAATGCGTATGAAGGCATGTCGTGCAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTCCAGAGATGAAACACTCATTCAACAATAAAGACATGTCGCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTCTTTGAAGCTACAGAAACGATTTTATTTCAAAAATGTCGCATTTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCCTGAAACATGGAAGCAAGGCTGACTATGTGAGACCAAACTTGACACCTACAAA 324
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QY 325 AATGCTGATGTTCTGCTGCTGCTACTCTCCAGGTAAATGATCAACCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGGCAACTGTGGAGAGGGTGAAGGATCCACCTCCTCCTGATTTTCATTGCA 444
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QY 445 GGAATAAGTTAGTCAATATGACCAAGGTAGGCATTTGTCCATGAGTGGGCTCAT 504
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QY 505 CTACGATGGGAGTATTTGACGAGTACAATAATGATGAGAAATCTTACTTATCCAATGGA 564
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QY 805 AACACGCAAAATCAAAATGCAATCTCCGAGCACATGGAGTGTATCGTGATTTCTGAG 864
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QY 925 CAGATTGGACAAAGATTGTGTGTAGTCTGACAAATCTGGAAGCATGGCAGCTGGT 984  
DB 301 GlnIleGlyGlnAlaGlyLeuValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCGCTCAATCGACTGAATCAACAGGCGCAGCTTTTCTGCTGCAGACAGTTGAGCTG 1044  
DB 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
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QY 1105 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAAGATTACCTGCAGCAGCTTCA 1164  
DB 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
QY 1165 GGAGGACGTCCATCTGCAGCGGGCTTCGATCGGCATTACTGTGATTAGGAAGAAATAT 1224  
DB 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
QY 1225 CCACTGATGATCTGAAATTCGTCTGCTGACGGATGGGAAGCAACACTATAAGTCGG 1284  
DB 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCCTTAAACAGAGTCAAAAGTGGTCCCATCATCCACAGCTGCTTTGGGGCCCTCT 1344  
DB 421 CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer 440  
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QY 1405 GATCAAGTTCAGAACTGGCTCATTCATGCTTTTGGGGCCCTTTCATCAGGAATGGA 1464  
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QY 1645 GGCTTTGTAGTGGCAAAAACCAAAATGGCTTACTCCAAATCCAGGCATTGCTAAG 1704  
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QY 1705 GTTGGACATTGAAATACAGTGTGCAAGCAAGCTCAAAACCTTGACCTGATGTACAG 1764  
DB 561 ValGlyThrTrpLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
QY 1765 TCCCGTGGCTCCAATGCTACCTGCTCCCAATACAGTCACTTCCAAAACGACAGGAC 1824  
DB 581 SerArgAlaSerAsnAlaThrLeuProProIleThrValThrSerLysThrAsnLysAsp 600  
QY 1825 ACCAGCAAAATTCGCCAGCCTCTGGTAGTTTATGCAAAATATTCGCAAGAGCCTCCCA 1884  
DB 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATGTAATCAGTGAATGGAAGAAACAGTTACTTG 1944  
DB 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGATTAATGGACAGGTGCTGATGCTACTAAGATGACCGTGTCTACTCAAGG 2004

DB 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACAACTTATGACAGAAATGGTAGATACAGTGTAAAGTGGGGCTCTGGAGGA 2064  
DB 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAACGACGACGACGAGAGTGTATACCCAGCAGAGTGTGAGCAGTGTACATACCTGGC 2124  
DB 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGATGATGAATAACAATGCAATCCCAACAGCTGAAATTAATGAAGATGAT 2184  
DB 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAAAGCAAGTGTGTTCAGCAGAACATCCTCGGAGGCTCATTTGTGGCTTCT 2244  
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QY 2245 GATGTCCCAATGTCTCCATACCTGATCTCTCCACCTGCCCAATCACCAGCCTGAAG 2304  
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QY 2305 CGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGGATGATTAT 2364  
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QY 2365 GACATGTGAACAGCTCACAAGTATCATTCGAATAGTACAGTATCTTGTGATCTCAGA 2424  
DB 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAGTTCAATGATCTCTTCAAGTGAATACTCTGCTCTCATCCCAAGAGAACCCAAAC 2484  
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RESULT 5  
US-09-833-245-2054  
; Sequence 2054, Application US/09833245  
; Publication No. US20040010134A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF546PCT  
; CURRENT APPLICATION NUMBER: US/09/833,245  
; CURRENT FILING DATE: 2001-04-12  
; PRIOR APPLICATION NUMBER: 60/229, 358  
; PRIOR FILING DATE: 2000-04-12  
; PRIOR APPLICATION NUMBER: 60/256, 931  
; PRIOR FILING DATE: 2000-12-21  
; PRIOR APPLICATION NUMBER: 60/199, 384  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 2267  
; SOFTWARE: PatentIn Ver. 2.1

! SEQ ID NO 2054  
! LENGTH: 914  
! TYPE: PRT  
! ORGANISM: Homo sapiens  
US-09-833-245-2054

Alignment Scores:  
Pred. No.: 0 Length: 914  
Score: 4759.00 Matches: 914  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 88.46% Indels: 0  
DB: 11 Gaps: 0

US-09-049-696-20 (1-2983) x US-09-833-245-2054 (1-914)

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QY 85 AGTAATTCACTCATTCAGCTGAACAAATGGCTATGAAGGCATTCCTGCTCAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTCGCAAGAGATGAACACTCACTCAACAAATAAAGACATGGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTGAAGCTACAGGAAGCGATTATTATTTCAAAATGTTGCCATTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCCTGAAACATGGAACAAAGCGTACTATGTGAGACCAACAAACTTGAGACCTACAAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGGTCTGAGTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG 384
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QY 385 CAGATGGGCAACTGTGGAGAGAGGTTGAAGATCCACCTCACTCTGATTTCAATTGCA 444
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAGTTAGCTGAATATCGACACAAAGTGTAGCGATTGTCATGAGTGGGCTCAT 504
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QY 805 AACAGCAAAATCAAAATGCAATCTCCGAAAGCACATGGGAAGTGCATCCGTGATTCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280
QY 865 GACITTAAGAAAACCACTCTATGACAAACAGCCACCAAAATCCCACTTCTCTATTGCTG 924
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QY 985 AACCGCTCAATCGACTGAATCAAGCGCCAGCTTTTCTGCTGCAGACAGTTGAGCTG 1044
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340
QY 1045 GGTCTCTGGTGGGATGCTGACATTTGACAGTGTGCCCATCTACAAAGTCAATGACATCA 1104
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAAACAGTGGCAGTGACAGGACACACTCGCCAAAGATTACTCTCAGCAGCTTCA 1164
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380
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QY 1585 ACCTGGCAACGCGACGCTCCCAATCTCTCTGGGATCCAGTGGACAGACGACGCAAGT 1644
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QY 1945 GAATCTGATTAATGAGCAGGCTGCTGATGCTACTAAGGATGACGGTGTCTACTCAAGG 2004
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Db      641 GluLeuLeuAspSerGlyAlaGlyAlaAspAlaThrIysAspSerGlyValTyrSerArg 660
QY      2005 TATTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAGTGGGGCTCTGGGGAGGA 2064
Db      661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValIysValArgAlaLeuGlyGly 680
QY      2065 GTTAAACGACGACGACGAGTATACCCAGCAGAGTGGAGCAGTGTACATACCTGGC 2124
Db      681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
QY      2125 TGGATTGAGATGATGAAATACATCAATCAATCCACCAAGACCTGAAATTAATTAAGGATCAT 2184
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QY      2185 GTTCAACACAAAGCAAGTGTGTTTCAGCAGAACATCTCTGGGAGGCTCATTTGGCTTCT 2244
Db      721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY      2245 GATGTCCTCAATGCTCCCATACCTGATCTCTCCCACTGGCCAAATCAACCGACCTGAAG 2304
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RESULT 6
US-10-235-994-26
; Sequence 26, Application US/10235994
; Publication No. US20030101002A1
; GENERAL INFORMATION:
; APPLICANT: Bartha, Gabor
; APPLICANT: Walker, Michael
; TITLE OF INVENTION: METHODS FOR ANALYZING GENE EXPRESSION PATTERNS
; FILE REFERENCE: ICYTP012
; CURRENT APPLICATION NUMBER: US/10/235,994
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: US/10/003,608
; PRIOR FILING DATE: 2001-11-01
; PRIOR APPLICATION NUMBER: 60/245,081
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 914

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; TYPE: PRT
; ORGANISM: Human
US-10-235-994-26
Alignment Scores: 0 Length: 914
Pred. No.: 0 Matches: 914
Score: 4759.00 Conservative: 0
Percent Similarity: 100.00% Mismatches: 0
Best Local Similarity: 100.00% Indels: 0
Query Match: 88.46% Gaps: 0
DB: 14

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Db      21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
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Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATGAATCAGTGAATGAGAAACAGTTACCTTG 1944  
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QY 1945 GAACTACTGGATATGAGCAGGTGGTGTGCTACTAAGGATGACGGTGTCTACTCAAG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660

QY 2005 TATTTCACTATTCACACGATGCTAGATACAGTGTAAAAGTGGGGCTCTGGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAAACGACGACGAGAGTGTATACCCAGCAGAGTGGAGCTGTACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGGAATGATGAATACAATCAATGGAATCCACCAAGACCTGAAATTAATGAAGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACCAAGCAAGTGTGTTTCAGCAGAACATCTCGGAGGCTCATTTGGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAAAATGCTCCCATACCTGATCTCTTCCACCTGGGCCAAATACCCGACCTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGGAGTCTCTAATCTGACTTGGACAGCTCTCGGGGATGATTAT 2364  
Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAAAGTATTTCTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAGTTCAATGAATCTCTTCAAGTGAATACTACTCTCTCATCCCAAGGAAGCCAC 2484  
Db 801 AspLysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProLysGluAlaAsn 820  
QY 2485 TCTGAGGAAGTCTTTTGTGTTTAAACCAAGAAACATTTGAAAAATGGCACAGATCTT 2544  
Db 821 SerGluGluValPheLeuPheLysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840  
QY 2545 TTCAATGCTATTTCAGGCTGTTGATAAGTGCATCTGAAATCAGAATATCCAACATTGCA 2604  
Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CGAGTATCTTTGTTTATTCTCCACAGACTCCGCCAGACACCTAGTCTCTGATCAAAAG 2664  
Db 861 ArgValSerLeuPheIleProGlnThrProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTCTGCTCTAATATTCATATCAACAGACCATTCTCTGGCAATTCATTTTAAAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGAAGTGGATAGGAGAACTGCAGCTGTCATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 7

US-10-060-255-42  
; Sequence 42, Application US/10060255  
; Publication No. US20030113840A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 25 Human secreted proteins  
; FILE REFERENCE: P2042P1  
; CURRENT APPLICATION NUMBER: US/10/060,255  
; CURRENT FILING DATE: 2002-02-01  
; PRIOR APPLICATION NUMBER: 09/781,417  
; PRIOR FILING DATE: 2001-02-13  
; PRIOR APPLICATION NUMBER: PCT/US00/22325  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/149,182  
; PRIOR FILING DATE: 1999-08-17  
; NUMBER OF SEQ ID NOS: 86  
; SOFTWARE: PatentIn ver. 2.0  
; SEQ ID NO 42  
; LENGTH: 914  
; TYPE: PRT

; ORGANISM: Homo sapiens  
US-10-060-255-42

## Alignment Scores:

Pred. No.: 0 Length: 914  
Score: 4759.00 Matches: 914  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 88.46% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-060-255-42 (1-914)

QY 25 ATGGGGCCATTAGAGTTCTGTGTTCTTCACTTCTTCACTTCTAGAGGGCCCTG 84  
Db 1 MetGlyProPheLysSerValPheIleuIleuIleuHisLeuLeuGluGlyAlaLeu 20  
QY 85 AGTAATTCACCTCATTGACGTCAACCAATGGCTATGAAGCATTGTGTTGCCAATCGAC 144  
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnAsnGlyTyrGluGlyIleValValAlaIleasp 40  
QY 145 CCCAATGTGCCAGAGATGAACACTCATTCAACAATAAAGGACATGGTCAACCGACA 204  
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60  
QY 205 TCTCTGTATCTTTGAAGCTACAGGAAGGATTTTATTTCAAAATGTTGCCATTTTG 264  
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80  
QY 265 ATTCTGAAACATGAGACAAAGGCTGACTATGTGAGACCAAACTTTGAGACCTTACAAA 324  
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100  
QY 325 AATGCTGATGTTCTGGTTCGTACTCTCTCCAGTAATGATGAACCCCTACACTGAG 384  
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120  
QY 385 CAGATGGCACTGTGGAGAGAGGTTGAAGGATCCACCTCCTGATTTCATTGCA 444  
Db 121 GlnMetGlyAsnCysGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140  
QY 445 GGAAAAAGTAGCTGAATATGACACCAAGTAGGCTTTGTCATGAGTGGGCTCAT 504  
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyArgAlaPheValHisGluTrpAlaHis 160  
QY 505 CTACGATGGGAGTATTTACGAGTACAAATATGATGAGAAATTTACTTTATCCAAATGCA 564  
Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180  
QY 565 AGAATACAGCAGTAAAGTTTCAGCAGTATTACTGTTACAAATGTAGTAAGAAGTGT 624  
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200  
QY 625 CAGGAGGCGAGTGTATACACCAAAAGATGCACATTCAATAAAGTAACAGAGCTCATGAA 684  
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220  
QY 685 AAAGGATGTGATTTGTTCTCCAAATCCCGCCAGACGAGAGGCTTCTATAATGTTTGA 744  
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
QY 745 CAACTGTTGATTCATAGTTGAATTTCTGTACAGAACCAAAACCAACAGAGCTCCA 804  
Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
QY 805 AACAGCAAAATCAAAATGCAATCTCCGAGCAGATGGGAAGTGAATCCGTGATCTGAG 864  
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280  
QY 865 GACTTTAAGAAACCACTCTTATGACACACAGCCACCAAAATCCCACTTCTCATTTGCTG 924  
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300

QY 925 CAGATTGGACAAAGAAATTGTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGGCAGCTGT 984  
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCGAGCTTTTCTGTCTGCAGACAGTGTAGCTG 1044  
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGGTCTCTGGGTGGGATGGTGCACATTTGACAGTGTCTCCCATGTACAAAGTGAATCAT 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360  
QY 1105 CAGATAAACAGTGGCAGTGCAGGGACACACTCCGCCAAAGATTACCTGCAGCAGCTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaSer 380  
QY 1165 GGAGGACGTCCATCTCAGCGGCTTCGATCGGCATTATTACTGTATTAGGAAGAAATAT 1224  
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QY 1225 CCAACTGATGGATCTGAATTTGTCTGCTGACGATGGGAGACACACTATAAGTGGG 1284  
Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCCTTTAACAGAGTCAACAAAGTGGTGCCTATCCACACAGTCGCTTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
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Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
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Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTGAGAGTAAAGGATTAAACCTCCAGAACAGCCAG 1524  
Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500  
QY 1525 TGGATGAATGGCACAGTGTATCGTGACACCGTGGGAAAGGACACTTGTCTTTCTTATC 1584  
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QY 1645 GCGTTTGTAGTGGACAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATTCCTAAG 1704  
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QY 1705 GTTGCACCTTGGAAATACAGTCTGCAAGCAGCTCAGAACTTGCACCTGACTGTACG 1764  
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QY 1765 TCCGTGTGCTCCAACTGCTACCTGCTCCAAATTCAGTGACTTCCAAACCAAGCAAGAC 1824  
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QY 1825 ACCAGCAAAATCCCGAGCCCTCTGTGTAGTTTATGCAAAATATTGCGCAAGGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTCCACGCCCTGATTGAATCAGTGAATGGAAAAACAGTTTACCTTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGTGATAATGGAGCAGGCTGCTGATCTACTAAGGATGACGGTGTCTCTCAAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTTCACAACTTATGACACGAATGGTAGATACAGTGTAAAAAGTGGGCTCTGGGAGGA 2064

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Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValIysValArgAlaLeuGlyGly 680
QY 2065 GTTAACGACGACGAGAGTGTATACCCAGCAGAGTGGACACTGTACACTGCGC 2124
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700
QY 2125 TGGATTGAGAAATGATGAAATCAATGAATCCACCAAGACCTGAAATTAATAGGATGAT 2184
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnIysAspAsp 720
QY 2185 GTTCAACACAGCAAGTGTGTTTCAGCAGAAATCTCCGAGGCTCATTTGTGGTTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCCAAAATGCTCCCATACCTCATCTCTCCACCTGGCCCAATCACCCACCTGAG 2304
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuIys 760
QY 2305 GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCCTGGGATGATAT 2364
Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780
QY 2365 GACCATGGAACAGCTCACAGTATATCATTCGAATAGTACAAATGATTCCTGATCTCAGA 2424
Db 781 AspHisGlyThrAlaHisIysTyrIleAlaGlySerThrSerIleLeuAspLeuArg 800
QY 2425 GACCAAGTTCATGAATCTCTCAAGTACTACTGCTCTCTCATCCCAAGAACCAAC 2484
Db 801 AspIysPheAsnGluSerLeuGlnValAsnThrThrAlaLeuIleProIysGluAlaAsn 820
QY 2485 TCTGAGGAGTCTTTTGTGTTTAAACACAGAAAACATTTCTTTTGAATAAGGACAGATCT 2544
Db 821 SerGluGluValPheLeuPheIysProGluAsnIleThrPheGluAsnGlyThrAspLeu 840
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QY 2605 CGAGTATCTTTGTTTATTCCTCCACAGACTCCGCCAGAGACACTAGTCCCTGATGAAAG 2664
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QY 2665 TCTGCTCTCTGCTCTTAATPATTCAATCAACAGCACCATTCTCTGGCATTCACATTTTAAA 2724
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuIys 900
QY 2725 ATTATGCGAAGTATGATAGGAGAACTGAGCTGTCAATAGCC 2766
Db 901 IleMetTrpIysTrpIleGlyGluLeuGlnLeuSerIleAla 914
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## RESULT 8

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US-09-922-217-1066
; Sequence 1066, Application US/09922217
; Patent No. US20020076414A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretist, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole Lynn
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C13
; CURRENT APPLICATION NUMBER: US/09/922,217
; CURRENT FILING DATE: 2001-08-03
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; NUMBER OF SEQ ID NOS: 1124
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRP
; ORGANISM: Homo sapiens
US-09-922-217-1066
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Alignment Scores:
Pred. No.: 0 Length: 914
Score: 4756.00 Matches: 913
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.80% Mismatches: 0
Query Match: 88.40% Indels: 0
DB: 9 Gaps: 0
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US-09-049-696-20 (1-2983) x US-09-922-217-1066 (1-914)

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Db 1 MetGlyProPheLysSerValPheIleLeuIleLeuHisLeuLeuGluGlyAlaLeu 20
QY 85 AGTAATTCACATTCATCAGCTGAACCAACAAATGGCTATGAAGCATTTGTCCTTCAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40
QY 145 CCCAATGTCGCAAGATGAAACATCTCAATTCAACAAATAAGGACATGGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnIleLysAspMetValThrGlnAla 60
QY 205 TCTCTGATCTCTTGAAGCTACAGGAAGCGATTTTATTTCAAAAATGTTGCCATTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80
QY 265 ATTCCTGAAACATGGAACACAAAGGCTCAGTATGTGAGACCAAACTTGAGACCTACAAA 324
Db 81 IleProGluThrTrpLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100
QY 325 AATGCTGATGTTCTGGTTGCTGAGTCTACTCTCCAGTAAATGATGAACCTTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120
QY 385 CAGATGGCAACTGTGGAGAGAGGTTGAAGGATCCACCTCCTCCTGATTTCAATTGCA 444
Db 121 GlnMetGlyAsnCysGlyGluGlyArgIleHisLeuThrProAspPheIleAla 140
QY 445 GGAATAAGTTAGCTGAATATGACCAACAGGTAGGCAATTTGTCCATGAGTGGGCTCAT 504
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QY 685 AAAGGATGTGAGTTGTTCTCCAAATCCGCCAGACGAGAGGCTTCTATAATGTTTGA 744
Db 221 LysGlyCysGluPheValLeuLeuSerArgGlnThrGluLysAlaSerIleMetPheAla 240
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QY 805 AACAGCAAAATCAAAATGCAATCTCCGAGCACACATGGGAAGTATGCTGATTTCTGAG 864
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QY 865 GACCTTAAAGAAACACCTCTCTATGACAAACAGCAGCAACCAATCCACCTTCTCATCTGCTG 924  
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QY 1045 GGTCTCTGGTGGATGGTGTGACATTTGACAGTGTCTGCCATGTCACAAAGTGAATCAT 1104  
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Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420  
QY 1285 TGCCTTTAAGAGCTCAAAAGAGTGGTGCATCATCCACACAGTGCCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
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QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTGAGAGTAAAGGATTAACCTCCAGAACAGCCAG 1524  
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QY 1705 GTTGGCACTTGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTACAG 1764  
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QY 1765 TCCGTGGCTCCAAATGCTACCTGCTCCAAATAGACTACTCCAAACGACAGGAC 1824  
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Db 601 ThrSerLysPheProSerProLeuValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGGCCAGTGTACAGCCCTGATTGATCATGTAATGGAAAAACAGTTACTCTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640

QY 1945 GAACTACTGGATAATGGAGCAGGTGCTGATCTACTAAGGATGACGGTGTCTACTCAAGG 2004  
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QY 2005 TATTTCAACACTTATGACACGAATGGTAGATACAGTGTAAAGTCTGGGCTCTGGGAGA 2064  
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QY 2065 GTTAAAGCAGCAGCAGGAGAGTATACCCAGCAGAGTGGAGCACTGTACATACCTGGC 2124  
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QY 2125 TGGATTGAAGATGATGAATCAATGGAATCCACAGACCTGAAATTAATAAGATGAT 2184  
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Db 841 PheIleAlaIleGlnAlaValAspLysValAspLeuLysSerGluIleSerAsnIleAla 860  
QY 2605 CAGATATCTTTGTTTATCTCCACAGACTCCGACAGACACCTAGTCTCTGATGAACG 2664  
Db 861 ArgValSerLeuPheIleProProGlnThrProGluThrProSerProAspGluThr 880  
QY 2665 TCTGTCTCTGTCTTAATATTCATATCAACAGCACCATTCCTGGCATTCACATTTTAAA 2724  
Db 881 SerAlaProCysProAsnIleHisIleAsnSerThrIleProGlyIleHisIleLeuLys 900  
QY 2725 ATTATGTGAAGTGGAGAGCACTGCAGCTGTCTCAANTAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 9

US-09-833-1066  
; Sequence 1066, Application US/09833263  
; Patent No. US20020110547A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Aijun  
; APPLICANT: Clapper, Jonathan D.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Meagher, Madeleine J.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C12  
; CURRENT APPLICATION NUMBER: US/09/833,263  
; CURRENT FILING DATE: 2001-04-10  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 1066

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i   LENGTH: 914
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-833-263-1066

Alignment Scores:
Pred. No.:      0      Length:      914
Score:          4756.00  Matches:      913
Percent Similarity: 100.00%  Conservative: 1
Best Local Similarity: 99.89%  Mismatches: 0
Query Match:      98.40%  Indels: 0
DB:                9      Gaps: 0

US-09-049-696-20 (1-2903) x US-09-833-263-1066 (1-914)

QY 25 ATGGGGCCATTAAAGATTTCTGTGTTCACTTCATCTTCACCTTCTAGAGGGGCCCTG 84
Db 1 MetGlyProPheLysSerValPheIleLeuHleLeuHleLeuGluGlyAlaLeu 20

QY 85 AGTAATTCATCTATTCAGCTGAACAAACAATGGCTATGAAGGCATTCGTTGCAATCGAC 144
Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40

QY 145 CCCAATGCGCAGAAGATGAACACTCATCTCAACAATAAAGACATGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGTATCTGTTGAAGCTACAGAAAGCGATTTTATTTCAAAAATGTTGCCATTTG 264
Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCCTGAAACATGAAGACAAAGGCTGACTATGTGAGACCAAACTTCAGAGCCCTACAAA 324
Db 81 IleProGluThrTyrLysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100

QY 325 AATGCTGATGTTCTGTTCTGAGTCTACTCTCCAGGTAATGATGAACCTACACTGAG 384
Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGGCAACTGTGGAGAGAGGTTGAAGATCCACTCACTCTCTGATTCATTGCA 444
Db 121 GlnMetGlyAsnGlyGlyGlyGlyGlyGluArgIleHisLeuThrProAspPheIleAla 140

QY 445 GGAATAAAGTTAGCTGAATATGACCAACCAAGGTAGGGCATTTGTCCATGAGTGGTCTAT 504
Db 141 GlyLysLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluThrAlaHis 160

QY 505 CTACGATGGGGAGTATTTGACGAGTACATAATGATGAGAAATTCCTACTTATCCAAATGGA 564
Db 161 LeuArgTyrGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180

QY 565 AGAATACAGCAGTAAGATGTTCCAGCGTATTTACTGTGACAAATGCTAGTAAGAAGTGT 624
Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysLysCys 200

QY 625 CAGGAGGCGAGCTGTATACCAAAAAGATGCACATTCATAAAGTAAACAGAGCTCTATGAA 684
Db 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220

QY 685 AAAGATGTGAGTTGTTCTCAATCCCGCCAGACGGAGAGGCTTCATATAATGTTTGA 744
Db 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240

QY 745 CAACATGTGATTCTATAGTTGAATTCGTACAGAACCAAAACCAACAAGAAAGCTCCA 804
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QY 805 AACAGCAAAATCAAAATGCAATCTCCGACGACATGGGAGTATCGGTGATTCCTGAG 864
Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTyrGluValIleArgAspSerGlu 280

QY 865 GACTTTTAAAGAACCACTCTCTATGACACAGCCCAACCAATCCACCTTCTCATGCTG 924

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Db 281 AspPheLysLysThrThrProMetThrThrGlnProAsnProThrPheSerLeuLeu 300
QY 925 CAGATTGGCAAGAATTTGTGTTTGTCTTGTGACAAATCTGGAAGCATGGCGACTGGT 984
Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320
QY 985 AACCGCTCAANTCGACTGAATCAAGCAGGCCAGCTTTCTCTCTGCTGACAGTGGAGCTG 1044
Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340
QY 1045 GGGTCTCTGGTGGGATGCTGACATTTGACAGTGTCTGCCCATGTACAAAAGTGAACTCATA 1104
Db 341 GlySerTyrValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360
QY 1105 CAGATAAACAGTGGCAGTGCACAGGGACACACTCGCCAAAAGATTACTCTGAGCAGCTTCA 1164
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Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleHisThrValAlaLeuGlyProSer 440
QY 1345 CGAGCTCAAGAACTAGAGGAGCTGCCAAAANTCAGAGGAGTTTACAGCATATGCTTCA 1404
Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460
QY 1405 GATCAAGTTTCAGAACAAATGGCCCTCATTCATGCTTTTGGGGCCCTTTCATCAGAAATGA 1464
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Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500
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QY 1705 GTTGCACTTGGAAATACAGTCTGCAAGCAGCTCACAACCTCACAACCTGACCTGCTCAG 1764
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QY 1765 TCCCGTGGTCCAAATGCTACCTGCTCCCAATTCAGTGACTTCCAAAACGAAACAGGAC 1824
Db 581 SerArgAlaSerAsnAlaThrLeuProIleThrValThrSerLysThrAsnLysAsp 600
QY 1825 ACCAGCAATTTCCCGAGCCCTCTGGTAGTTTATGCAATATTCGCAAGGAGGCTCCCA 1884
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620
QY 1885 ATTCTCAGGGCCAGTGTCAAGCCCTGATTCAATCAGTGAATGGAAAAACAGTTACCTTG 1944
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640
QY 1945 GAATCTGATGATGAGGAGGCTGCTGATGCTACTAAGGATGACGGTGTCTTACTCAAGG 2004
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660

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Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680
QY 2065 GTTAAAGCCAGCCAGAGAGATGATACCCAGAGAGTGGAGCAGTGTACATACCTGGC 2124
Db 681 ValAsnAlaAlaArgArgValLleProGlnGlnSerGlyAlaLeuTyrLleProGly 700
QY 2125 TGAATTGAGATGATGAATACAAATGGAATCCCAAGACCTGAAATTAATAGAGATGAT 2184
Db 701 TrpLleGluAsnAspGluLleGlnTrpAsnProProArgProGluLleAsnLysAspAsp 720
QY 2185 GTTCAACACAGCAAGTGTGTTTCAGACAGACATCTCCGGAGGCTATTGGGTTCT 2244
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerGlyGlySerPheValAlaSer 740
QY 2245 GATGTCCCAAAATCTCCATACCTGATCTCTCCACCTGGCCAAATCACCGACCTGAAG 2304
Db 741 AspValProAsnAlaProLleProAspLeuPheProProGlyGlnLleThrAspLeuLys 760
QY 2305 GCGAAATTCACGGGCGAGTCTCTAATCTGACTTGGACAGCTCTCGGGATGATTAT 2364
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QY 2545 TTCATTGCTTATTCAGGCTGTGATAGTTCGATCTGAATACAGAAATATCCACATTCGA 2604
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QY 2665 TCTGCTCTCTGCTTATATTCATATCAACAGACCATTCCTCGCATTCACATTTTAAAA 2724
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## RESULT 10

US-10-025-380-1066

; Sequence 1066, Application US/10025380

; Publication No. US20020182191A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Lodes, Michael J.

; APPLICANT: Secrist, Heather

; APPLICANT: Benson, Darin R.

; APPLICANT: Meagher, Madeleine Joy

; APPLICANT: Stolk, John A.

; APPLICANT: Wang, Tongtong

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Smith, Carole L.

; APPLICANT: King, Gordon E.

; APPLICANT: Wang, Aijun

; APPLICANT: Clapper, Jonathan D.

; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedvick Thomas S.

```
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: OF COLON CANCER AND METHODS FOR THEIR USE
; CURRENT FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 1129
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1066
; LENGTH: 914
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-025-380-1066
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## Alignment Scores:

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Score: 4756.00 Matches: 913
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.89% Mismatches: 0
Query Match: 88.40% Indels: 0
DB: 13 Gaps: 0
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US-09-049-696-20 (1-2983) x US-10-025-380-1066 (1-914)

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QY 85 AGTAATTCATCTCATTCAGCTGAACACAAATGCGTATGAAGGCAATTCGTTGCAATCGAC 144
Db 21 SerAsnSerLeuLleGlnLeuAsnAsnGlyTyrGluGlyLleValValAlaLleAsp 40
QY 145 CCCAATGTCGCGAAGATGAACACATCATTCACAAATAAAGACATGTGTGACCCAGGCA 204
Db 41 ProAsnValProGluAspGluThrLeuLleGlnGlnLleLysAspMetValThrGlnAla 60
QY 205 TCTCTGTATCTGTTTGAAGCTACAGAAAGCGATTTTATTTCAAAATGTTGCCATTTCG 264
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QY 265 ATTCTCTGAACATGGAAGCAAAAGGCTGACTATGTGAGACCAAACTTGAGACTCAAA 324
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QY 385 CAGATGGGCAACTGTGAGAGAGGCTGAAGGATCCACCTCCTCCTCATTTTCATTGCA 444
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Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
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QY 865 GACTTTAAGAAACCACTCTCTATGACAAACACAGCACCAATCCCACTTCTCATGCTG 924  
Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
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Db 301 GlnIleGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320  
QY 985 AACCGCTCAATCGACTGAATCAAGCAGCGCCACTTCTCTGCTGCAGACAGTGGCTG 1044  
Db 321 AspArgLeuAsnArgLeuAsnGlnAlaGlyGlnPheLeuLeuGlnThrValGluLeu 340  
QY 1045 GGTCCTCTGGGTTGGGATGGTGACATTTGACAGTGTCTGCCATGTACAAAGTGAATCATA 1104  
Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuLe 360  
QY 1105 CAGATAACAGTGGAGTGCAGGGACACACTCGCCAAAGATTAACCTGCAGCAGCTTCA 1164  
Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsa 380  
QY 1165 GGAGGGACGTCCTATCTGCAGCGGCTTCGATCGCATTTACTGTGATTAGAGAAATAT 1224  
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QY 1285 TGCCTTAAACAGAGTCAAAAGAGTGTGCATCATCCACAGTCGCTTTGGGGCCCTCT 1344  
Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440  
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QY 1525 TGATGAATGGACAGTGTGAGGACAGCACCGTGGGAAAGGACACTTGTCTTCTATC 1584  
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QY 1585 ACTTGACAAACGAGCGCTCCCAAAATCCTTCTCTGGGATCCCAAGTGGACAGAGCAAGT 1644  
Db 521 ThrTrpThrThrGlnProGlnIleLeuLeuThrAspProSerGlyGlnLysGlnGly 540  
QY 1645 GCGTTGTAGTGACAAAACACCAAAATGGCTTACTCCAAATCCAGGCATGTGAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGGAAATPACAGTCTGCAAGCAAGCTCACAAACCTTGACCTGCTGCAGC 1764  
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QY 1765 TCCGCTGCTCAATGCTACCTGCTCCCAATTACAGTGAATTCCTCAAAACGACAAAGGAC 1824  
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Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAACTACTGTGATTAATGGAGCAGGTGTGATGCTTACTAAGGATCAGCGTGTCTACTCAAG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACTTATGACACGAATGTGTAGATACAGTGTAAAGTGGGGCTCTGGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
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Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGATTTGAGAATGATGAATACAAATGGAATCCCAAGACCTGAAATTAATAAGGATGAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluLeuAsnLysAspAsp 720  
QY 2185 GTTCAACACAAAGTGTGTTTTCAGCAGAACATCTCGGAGGCTCATTTGTGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAAACTGCTCCCATCTCTCCACCTGCGCAACATCCACGACCTCAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProGlyGlnIleThrAspLeuLys 760  
QY 2305 GCGGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCTGGGATGATTAT 2364  
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QY 2365 GACCATGGAACTCAGCAGTATATCATTCGAATGAATGATATCTTGTATCTCAGA 2424  
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QY 2545 TTCATTGCTATTGAGCTGTTGANAAGTTCGATCTGAATTCAGAAATATCCAAATTCGA 2604  
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QY 2605 CGAGTATCTTTTATTTTCTCCACAGCTCCGCGACAGACACCTAGTCTGATGAACG 2664  
Db 861 ArgValSerLeuPheIleProGlnThrProProGluThrProSerProAspGluThr 880  
QY 2665 TCTGCTCTCTTCTCAATATTCATATCAACAGCACCATTCTCTGGCATTTCACATTTTAAA 2724  
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QY 2725 ATTATGTGAAGTGGATAGGAACTGCGAGCTGTCAATAGCC 2766  
Db 901 IleMetTrpLysTrpIleGlyGluLeuGlnLeuSerIleAla 914

## RESULT 11

US-10-270-595-6  
; Sequence 6, Application US/10270595  
; Publication No. US20030078409A1  
; GENERAL INFORMATION:  
; APPLICANT: Magainin Pharmaceuticals, Inc.  
; TITLE OF INVENTION: Asthma-Associated Factors as Targets for Treating  
; TITLE OF INVENTION: Atopic Allergies, Including Asthma and Related  
; TITLE OF INVENTION: Disorders  
; FILE REFERENCE: 36870-5073-WO  
; CURRENT APPLICATION NUMBER: US/10/270,595





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 201 GlnGlyGlySerCysTyrThrLysArgCysThrPheAsnLysValThrGlyLeuTyrGlu 220  
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 685 AAGGATGTGAGTTGTTCTCCAAATCCCGCAGACGAGGAAGCTTCTATAATGTTTGA 744  
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 221 LysGlyCysGluPheValLeuGlnSerArgGlnThrGluLysAlaSerIleMetPheAla 240  
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 745 CAACATGTTGATCTATAGTTGAATCTGTACAGAACAAACACACAAAGAAAGCTCCA 804  
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 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260  
 QY |||||  
 805 AACACGCAAAATCAAAATGCAATCTCCGAAGCACATGGGAAGTGAATCGTGATCTGAG 864  
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 QY |||||  
 865 GACTTTAAGAAACCACTCTATGACACACACAGCCACCAATCCACCTTCTCATTTGCTG 924  
 Db |||||  
 281 AspPheLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300  
 QY |||||  
 925 CAGATTGGACAAAGATTTGTGTTAGTCTTGACAAATCTCGAAGCATGGCGACTGGT 984  
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 QY |||||  
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 Db |||||  
 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaLaser 380  
 QY |||||  
 1165 GGAGGACGTCCATCTGCAGCGGGCTTCGATCGGCATTTACTGTGATTAGGAAGAAATAT 1224  
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 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400  
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 QY |||||  
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 Db |||||  
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 QY |||||  
 1345 GCAGTTCARAGAACTAGAGGAGCTGTCCAAAATGACAGAGGATTTACAGACATATGCTTCA 1404  
 Db |||||  
 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460  
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 Db |||||  
 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480  
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 QY |||||  
 1525 TGGATGAATGGCAGTGTGAGCAGCAGCCGTGGGAAGGACACTTTGTTTCTTATC 1584  
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 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520  
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541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
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 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCAAAACCTTGACCTGACTGTCAAG 1764  
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 561 ValGlyThrTriLysTyrSerLeuGlnAlaSerSerGlnThrLeuThrLeuThrValThr 580  
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 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
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 Db |||||  
 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
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 1945 GAACTACTGATAATGAGCAGGTGCTGATGCTACTTAAGATGACGGTGTCTACTCAAGG 2004  
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 641 GlnLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspGlyValTyrSerArg 660  
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 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
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 QY |||||  
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 QY |||||  
 2365 GACCATTGGAACAGCTCACAAAGTATATCATTCGAAATAAGTACAGATTTCTTGATCTCAGA 2424  
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 2485 TCTGAGGAAGTCTTTTGTGTTTAAACAGAAAACATTACTTTTGAATAATGGCACAGATCTT 2544  
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Db 901 IleMetTrpIysTrpIleGlyGluLeuGlnLeuSerIleAla 914

RESULT 13

US-10-369-214-133

; Sequence 133, Application US/10369214

; Publication No. US20030232037A1

; GENERAL INFORMATION:

; APPLICANT: Groot, Pieter C.

; APPLICANT: Berghenhegouwen van, Bram J.

; APPLICANT: Oosterhout van, Antoon J.M.

; TITLE OF INVENTION: Genes involved in immune related responses observed

; TITLE OF INVENTION: with asthma

; FILE REFERENCE: P53837US00

; CURRENT APPLICATION NUMBER: US/10/369,214

; CURRENT FILING DATE: 2003-02-15

; PRIOR APPLICATION NUMBER: EP 00202867.8

; PRIOR FILING DATE: 2000-08-16

; PRIOR APPLICATION NUMBER: PCT/NL01/00610

; PRIOR FILING DATE: 2001-08-16

; NUMBER OF SEQ ID NOS: 139

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 133

; LENGTH: 914

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: SITE

; LOCATION: (1)..(914)

; OTHER INFORMATION: /note="Human CLCAl"

US-10-369-214-133

Alignment Scores:

Pred. No.:	Score:	Length:	914
25	4751.00	Matches:	912
	Percent Similarity: 99.89%	Conservative:	1
	Best Local Similarity: 99.78%	Mismatches:	0
	Query Match: 88.31%	Indels:	0
	DB:	Gaps:	0

US-09-049-696-20 (1-2983) x US-10-369-214-133 (1-914)

QY 25 ATGGGGCCATTTAAAGAGTCTGTGTTTCATCTTGTATCTTCCACCTTCTAGAGGGGGCCCTG 84

Db 1 MetGlyProPheIysSerValPheIleLeuIleHisLeuGluGlyAlaLeu 20

QY 85 AGTAATCTACTATTGAGCTGAACAATGGCTGAGGCAATGCTGTTGCAATCGAC 144

Db 21 SerAsnSerLeuIleGlnLeuAsnAsnGlyTyrGluGlyIleValValAlaIleAsp 40

QY 145 CCCAATGTGCCAGACGAAACACTCATTCAACAAATAAGGACATGGTGACCCAGGCA 204

Db 41 ProAsnValProGluAspGluThrLeuIleGlnGlnIleLysAspMetValThrGlnAla 60

QY 205 TCTCTGTATCTGTTTCAAGCTACAGGAAAGCGATTTTATTCAAAAATGTGCAATTTG 264

Db 61 SerLeuTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu 80

QY 265 ATTCTCTGAACATGGAGAGCAAGGCTGACTATGTGAGACCAAACTTGAGACTACAAA 324

Db 81 IleProGluThrTrpIysThrLysAlaAspTyrValArgProLysLeuGluThrTyrLys 100

QY 325 AATGCTGATGTTCTGTTGCTGAGTCTACTCTCCAGGTAAATGATGAACCTACACTGAG 384

Db 101 AsnAlaAspValLeuValAlaGluSerThrProProGlyAsnAspGluProTyrThrGlu 120

QY 385 CAGATGGCAACTGTGGAGAGAGGGTGAAGGATCCACTACTCTGATTTTCATTGCA 444

Db 121 GlnMetGlyAsnGlyGluLysGlyGluArgIleHisLeuThrProAspPheIleAla 140

QY 445 GGAAGAAAGTACTGAATGAGACACAGGTAGGCAATTTCTCCATGAGTGGGCTCAT 504

Db 141 GlyLysLeuAlaGluTyrGlyProGlnGlyLysAlaPheValHisGluTrpAlaHis 160

QY 505 CTACGATGGGAGTATTTTACGAGAGTACAAATAATGATGAGAAATCTACTTATCCAAATGGA 564

Db 161 LeuArgTrpGlyValPheAspGluTyrAsnAsnAspGluLysPheTyrLeuSerAsnGly 180

QY 565 AGAATACAAAGCAGTAAAGATGTTTACGAGAGTATTACTGGTACAAATGTAGTAAAGAGTGT 624

Db 181 ArgIleGlnAlaValArgCysSerAlaGlyIleThrGlyThrAsnValValLysCys 200

QY 625 CAGGAGGAGGAGTGTATACCAACCAAGATGCACATTCATAAAGTACAGAGCTCTATGAA 684

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QY 685 AAAGGATGTGAGTTTCTTCCAAATCCCGCACACGAGAGAGGCTTCTATAATGTTTGA 744

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QY 745 CAACATGTTGATTCTATAGTTGAATTTCTGTACAGAACAAACCAACAAAGAGTCTCCA 804

Db 241 GlnHisValAspSerIleValGluPheCysThrGluGlnAsnHisAsnLysGluAlaPro 260

QY 805 AACAGCAAAATCAAAATGCAATCTCCGAGGACATGGAGTGTGATCCGTGATTTCTGAG 864

Db 261 AsnLysGlnAsnGlnLysCysAsnLeuArgSerThrTrpGluValIleArgAspSerGlu 280

QY 865 GACTTTAAGAAAACCACTCTCTATGACACACAGCCACCAATCCCACTTCTCATTTGCTG 924

Db 281 AspPheLysLysThrThrProMetThrThrGlnProProAsnProThrPheSerLeuLeu 300

QY 925 CAGATTGGACAAAGAAATTTGTGTTTGTAGTCTTGTGACAAATCTGGAAGCATGGCGATGGT 984

Db 301 GlnIleGlyGlnArgIleValCysLeuValLeuAspLysSerGlySerMetAlaThrGly 320

QY 985 AACCGCTCAATCGACTGAATCAAGCAGGCCACTTTTCTGCTGCAGACAGTGTAGCTG 1044

Db 321 AsnArgLeuAsnArgLeuAsnGlnAlaGlyGlnLeuPheLeuLeuGlnThrValGluLeu 340

QY 1045 GGTCTCTGGTGGGATGGTGACATTTGACAGTGTGCGCCATGTACAAAGTGAACATCATA 1104

Db 341 GlySerTrpValGlyMetValThrPheAspSerAlaAlaHisValGlnSerGluLeuIle 360

QY 1105 CAGATAAACAGTGGCAGTCAAGGACACACTCGCCAAAGATTACTCTGCAGCAGCTTCA 1164

Db 361 GlnIleAsnSerGlySerAspArgAspThrLeuAlaLysArgLeuProAlaAlaAsp 380

QY 1165 GAGGAGCAGCTCCATCTGCAGCGGCTTCGATCGCATTTTACTCTGTAGTAGAGAAATAT 1224

Db 381 GlyGlyThrSerIleCysSerGlyLeuArgSerAlaPheThrValIleArgLysLysTyr 400

QY 1225 CCAACTGATGGATCTCAAAATTTGTGCTGACGATGGGAGAACACATATAAGTGGG 1284

Db 401 ProThrAspGlySerGluIleValLeuLeuThrAspGlyGluAspAsnThrIleSerGly 420

QY 1285 TGTCTTAAACGAGTCAAAAGTGTGTCATCATCCACACAGTCCGCTTTGGGGCCCTCT 1344

Db 421 CysPheAsnGluValLysGlnSerGlyAlaIleIleHisThrValAlaLeuGlyProSer 440

QY 1345 GCAGCTCAAGACTAGAGGAGTGTCCAAAATACAGAGGTTTACAGACATATGCTTCA 1404

Db 441 AlaAlaGlnGluLeuGluLeuSerLysMetThrGlyGlyLeuGlnThrTyrAlaSer 460

QY 1405 GATCAAGTTTCAGAACAAATGGCTCATTTGATGCTTTTGGGGCCCTTTTCATCAGGAAATGGA 1464

Db 461 AspGlnValGlnAsnAsnGlyLeuIleAspAlaPheGlyAlaLeuSerSerGlyAsnGly 480

QY 1465 GCTGTCTCTCAGCGCTCCATCCAGCTTTGAGAGTAAAGGATTAACCTCCAGAACACGCCAG 1524

Db 481 AlaValSerGlnArgSerIleGlnLeuGluSerLysGlyLeuThrLeuGlnAsnSerGln 500

QY 1525 TGGATCAATGGCAGCTGATCGTGGACAGCAGCTGGGAAAGGACACTTTGTTTCTTATC 1584

Db 501 TrpMetAsnGlyThrValIleValAspSerThrValGlyLysAspThrLeuPheLeuIle 520

QY 1585 ACCTGACAAACGAGCCTCCCCAAAATCTTCTCTGGGATCCCAAGTGGAGAGCAAGAGT 1644

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QY 1645 GCCTTTGAGTGGCAAAACACCAAAATGGCTACCTCCAAATCCAGGCAATCTAAG 1704  
Db 541 GlyPheValValAspLysAsnThrLysMetAlaTyrLeuGlnIleProGlyIleAlaLys 560  
QY 1705 GTTGGCACTTGGAAATACAGTCTGCAAGCAAGCTCACAAACCTTCACCTGACTCTCAGG 1764  
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QY 1825 ACCAGCAATTCCTCCAGCCCTCTGCTAGTTATGCAATATTCGCAAGGAGCTCCCA 1884  
Db 601 ThrSerLysPheProSerProLeuValValTyrAlaAsnIleArgGlnGlyAlaSerPro 620  
QY 1885 ATTCTCAGGCGCAGTGTCCAGCCCTGATTGAATCAGTGAATGGAAACACAGTTACCTG 1944  
Db 621 IleLeuArgAlaSerValThrAlaLeuIleGluSerValAsnGlyLysThrValThrLeu 640  
QY 1945 GAATCTGGATATGAGAGCGGTGCTGATCTACTAAGGATGACGGTGTCTACTCAAGG 2004  
Db 641 GluLeuLeuAspAsnGlyAlaGlyAlaAspAlaThrLysAspAspGlyValTyrSerArg 660  
QY 2005 TATTTCACACTATGACACCAATGGTAGATACAGTGTAAAGTCGGGCTCTCGGAGGA 2064  
Db 661 TyrPheThrThrTyrAspThrAsnGlyArgTyrSerValLysValArgAlaLeuGlyGly 680  
QY 2065 GTTAACGACGACGAGAGAGTATACCCAGCAGAGTGGAGCAGCTGATACATACCTGGC 2124  
Db 681 ValAsnAlaAlaArgArgValIleProGlnGlnSerGlyAlaLeuTyrIleProGly 700  
QY 2125 TGGATTGAGATGATGAATACAAATGGAATCCCAACACCTGAAATTAATAAGATCAT 2184  
Db 701 TrpIleGluAsnAspGluIleGlnTrpAsnProProArgProGluIleAsnLysAspAsp 720  
QY 2185 GTTCAACACAGCAAGGTGTTTCAGCAGACATCTCTCGGAGGCTATTGTGGCTTCT 2244  
Db 721 ValGlnHisLysGlnValCysPheSerArgThrSerSerGlyGlySerPheValAlaSer 740  
QY 2245 GATGTCCCAATGCTCCACTACTGATCTCTCCAGCTGGCCAAATCACCGACTGAAG 2304  
Db 741 AspValProAsnAlaProIleProAspLeuPheProProGlyGlnIleThrAspLeuAsn 760  
QY 2305 CGCGAAATTCACGGGGCAGTCTCATTAATCTGACTTGGACAGCTCTCGGGATGATTAT 2364  
Db 761 AlaGluIleHisGlyGlySerLeuIleAsnLeuThrTrpThrAlaProGlyAspAspTyr 780  
QY 2365 GACCATGGAAACAGCTCACAAAGTATATCATTCGAATAGTACAAAGTATCTTGATCTCAGA 2424  
Db 781 AspHisGlyThrAlaHisLysTyrIleIleArgIleSerThrSerIleLeuAspLeuArg 800  
QY 2425 GACAAGTTCATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCAAGGAAGCAAC 2484  
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RESULT 14  
US-10-106-698-6388  
; Sequence 6388, Application US/10106698  
; Publication No. US20030109690A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides  
; FILE REFERENCE: PA005P1  
; CURRENT APPLICATION NUMBER: US/10106.698  
; CURRENT FILING DATE: 2002-03-27  
; PCT FILING DATE: PCT/US00/26524  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US 60/157,137  
; PRIOR FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: US 60/163,280  
; PRIOR FILING DATE: 1999-11-03  
; NUMBER OF SEQ ID NOS: 8564  
; SOFTWARE: PatentIn Ver. 3.0  
; SEQ ID NO 6388  
; LENGTH: 869  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (14)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-106-698-6388

## Alignment Scores:

Pred. No.: 0 Length: 869  
Score: 4476.00 Matches: 858  
Percent Similarity: 99.65% Conservative: 1  
Best Local Similarity: 99.54% Mismatches: 3  
Query Match: 83.20% Indels: 0  
DB: 14 Gaps: 0

US-09-049-696-20 (1-2983) x US-10-106-698-6388 (1-869)

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QY 241 TATTTCAAAATGTTGCCATTTTGATTCCTGAAACATGGAGACAAAGGCTGACTATGTG 300  
Db 28 TyrPheLysAsnValAlaIleLeuIleProGluThrTrpLysThrLysAlaAspTyrVal 47  
QY 301 AGACCAAACTTCAGACCTACAAAATGCTGATGTTCTGGTCTGCTGAGTCTACTCTCTCCA 360  
Db 48 ArgProLysLeuGluThrTyrLysAsnAlaAspValLeuValAlaGluSerThrProPro 67  
QY 361 GGTAAATGTAACCCCTACACTGAGCAGATGGCACTGTGGAGAGAGGTTGAAAGATC 420  
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QY 421 CACCTCACCTCTGATTTTCATTGTCAGGAAAAAGTTAGCTGAATATCGACCACCAAGTAGG 480  
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QY 481 GCATTGTCTCATGAGTGGGCTCATCTACGATGGGAGTATTTTCAGAGTACAAATATGAT 540  
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QY 541 GAGAAATTTCTACTTATCCAAATGGAAGATACAAAGCAGTAAGATGTTTCAGCAGGTATTACT 600  
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168 AsnLysValThrGlyLeuThrGlyLysGlyCysGluPheValLeuGlnSerArgGlnThr 187  
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348 PheThrValIleArgLysLysTyProThrAspGlySerGluIleValLeuLeuThrAsp 367  
1261 GGGGAAGCAACACTATAAGTGGGTGTTTACGAGTCAACAAAGTGGTGCATCATC 1320  
368 GlyGluAspAsnThrIleSerGlyCysPheAsnGluValLysGlnSerGlyAlaIleIle 387  
1321 CACACAGTCGTTTTGGGGCCCTCTGCAGCTCAAGAACTAGAGGAGCTGTCCAAAATGACA 1380  
388 HisThrValAlaLeuGlyProSerAlaAlaGlnGluLeuGluLeuSerLysMetThr 407  
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508 LeuGlnIleProGlyIleAlaLysValGlyThrTrpLysTySerLeuGlnAlaSerSer 527  
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528 GlnThrLeuThrLeuThrValThrSerArgAlaSerAsnAlaThrLeuProIleThr 547  
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2041 GTAAAGTGGGGCTCTGGGAGAGATTAAACGACCCAGACGAGAGTATACCCACAG 2100  
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2761 ATAGCC 2766  
868 IleAla 869



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QY	145	CCCAATGTGCCAGAGATGAACACTCATTCACACAATAAAGGCATGTGTGACCCAGGCA	204
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QY	205	TCTCTGTATCTCTTTGAAGCTACAGGAAGCGATTATTTCACAAAATGTTCGTCANTTTC	264
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QY	61	SerProTyrLeuPheGluAlaThrGlyLysArgPheTyrPheLysAsnValAlaIleLeu	80
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QY	265	ATTCTCTGAACATGGAAGACAAAGCGCTGACTATCTGAGACCAAAACTTGAGACTCAAA	324
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QY	325	AATGCTGATGTTCTGGTTCGTGACTCTACTCTCCAGGTAATGATGAACCCCTACACTGAG	384

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2659 GAAACGTCTGCTCTTGTCTCTTAATATTCATATCAACAGACACCATCTCTGGCATTACATT 2718  
876 AspSerThrProProCysProAspIleSerIleAsnSerThrIleProGlyIleHisVal 895  
2719 TTAATAATATGTGGAAGTGGATAGGAGAACTGCAGCTGTCAATA 2763  
896 LeuLysIleMetIlePheLysTrpLeuGlyGluMetGlnValThrLeu 910

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501 GlnTrpMetAsnGlySerValIleValAspSerSerValGlyLysAspThrLeuPheLeu 520  
1582 ATCACTGGACAGGAGCTCCCAATCTCTCTGGATCCCGTGGACAGACAA 1641  
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601 AsnThrGlyLysPheProSerProValThrValThrLysAlaSerIleArgGlnGlyAlaSer 620  
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1942 TTGGAACCTACTGATATGAGGAGGCTGCTGATCTACTAAGGATGACGCTGCTACTCA 2001  
641 LeuGluLeuLeuAspAsnGlyAlaGlyAlaAlaPheAlaThrLysAsnAspGlyValTrpSer 660  
2002 AGGTATTTCAACACTTATGACACCAATGTTAGATACACTGTAATAAGTCCGGGCTCTGGGA 2061  
661 ArgPhePheThrAlaPheAspAlaAsnGlyArgTrpSerValLysIleTrpAlaLeuGly 680  
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2242 TCTGATGTCCTCA---AATGCTCCATACCTGATCTCTCCACCTGGCCAAATCACCGAC 2298  
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